

Oracle[®] MICROS Restaurant Enterprise Solution (RES) Version 5.2

Maintenance Release 3

General Information

About This Document

This document provides installation instructions for the MICROS Restaurant Enterprise Solution (RES) Version 5.2 Maintenance Release 3. The process ensures the proper transfer and configuration of the files, programs, and database required for the smooth operation of the applications.

Within each section, product information is organized as follows:

- ◆ What's New
- ◆ What's Enhanced
- ◆ What's Revised

Each section begins with an introduction and includes a table that summarizes the features and functionality incorporated in this version of the software. The table provides hypertext links to supplementary text and graphics about the selected topics.

Installation and Upgrade

RES 5.2 MR3 requires RES 5 Gen 2 Prerequisites version 5.4.0000.1651 or 5.4.0100.2276. Unlike previous RES maintenance releases, you can install RES 5.2 MR3 Setup on a clean server PC with no prior RES installations. You can also upgrade to RES 5.2 MR3 from the following versions:

- ◆ 5.0 and 5.0 MR1 through MR6
- ◆ 5.1 and 5.1 MR1 through MR4
- ◆ 5.2 and 5.2 MR2

Warning *Any RES version not listed here cannot be upgraded to RES 5.2 Maintenance Release 3. You must upgrade to a compatible RES 5.x version before upgrading to RES 5.2 MR3.*

The *5.4 MR1 Installation Guide* contains applicable instructions for performing an upgrade or a clean installation of this maintenance release.

Declarations

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Maintenance Release 3

What's New?

A new feature is defined as one that provides capabilities that were not available in previous versions of the application.

New Features Summarized

The table below summarizes the new features included in this Maintenance Release.

Module	Feature	SCR or TPID/ CR ID	Page
POS Operations	UFC-crypt and nCrypto no longer included with the installation package	77881, 77882, 7893/ N/A	5

**New Features
Detailed**

POS Operations

UFC-crypt and nCrypto no longer included with the installation package

SCR #: 77881, 77882, 77893

CR ID #: N/A

The RES installation package no longer contains UFC-crypt and nCrypto libraries and references.

This release contains the following changes:

- ◆ RES 5.x installation changes the Sybase ODBC service registry settings to ignore all broadcast responses.
- ◆ The RES 5.x shell now installs only the following three users:
 - MICROS
 - DBA
 - Fiscal

It no longer installs the following legacy users:

- custom
- dbsrc
- emrepl
- esapps
- eoscfg
- esd
- general
- gsscfg

- gsserver
 - installer
 - kdsserver
 - manager
 - procedures
 - reports
 - reportuser
 - setup
 - support
 - syscfg
- ◆ RES no longer supports the VeriFone vx670 Pay at the Table client.
 - ◆ RES handheld clients now only support PM Procedures on MC55 and MC70.
 - ◆ RES handheld clients now only support Manager Procedures on MC55, MC70, and DT430.
 - ◆ RES no longer uses the secure version of MICROS Desktop.

What's Enhanced?

An enhancement is defined as a change made to improve or extend the functionality of the current 3700 POS application. To qualify as an enhancement, the change must satisfy the following criteria:

- ◆ The basic feature or functionality already exists in the previous release of the software.
- ◆ The change adds to or extends the current process. This differs from a revision (i.e., a bug fix) which corrects a problem not caught in the previous release of the software.

**Enhancements
Summarized**

No enhancements have been added to this release.

What's Revised?

A revision is defined as a correction made to any existing form, feature, or function currently resident in a previous version of software. To qualify as a revision, the change must satisfy the following criteria:

- ◆ The basic form, feature, or functionality must be part of the previous version of the software.
- ◆ The change must replace the current item or remove it from the application.

Revisions Summarized

The table below summarizes the revisions included in this Maintenance Release.

Module	Revision	SCR or TPID/CR ID	Page
System	The CMSC.exe process now releases handles correctly	79687/ N/A	9
Printing	The driver receipt now prints upon transfer even if the customer paid for the delivery order before transfer	74648/ 35704	9
Interfaces	RES no longer loses a DLL handle when using VoidDetail on a tender linked to a PMS interface	70183/ 35536	9

**Revisions
Detailed**

System

The CMSC.exe process now releases handles correctly

SCR #: 79687

CR ID #: N/A

Previously, the CMSC.exe process did not release handles added through POS Operations and the Cash Management Back Office application. This has been corrected.

Printing

The driver receipt now prints upon transfer even if the customer paid for the delivery order before transfer

SCR #: 74648

CR ID #: 35704

Previously, if a delivery order was paid before it was transferred to the driver, the driver receipt would not print upon transfer. This has been corrected.

Interfaces

RES no longer loses a DLL handle when using VoidDetail on a tender linked to a PMS interface

SCR #: 70183

CR ID #: 35536

Previously, it was possible for a DLL handle to be lost when using VoidDetail on a tender linked to a PMS interface. This has been corrected.

Maintenance Release 2

What's New?

A new feature is defined as one that provides capabilities that were not available in previous versions of the application.

New Features Summarized

No new features have been added to this release.

What's Enhanced?

An enhancement is defined as a change made to improve or extend the functionality of the current 3700 POS application. To qualify as an enhancement, the change must satisfy the following criteria:

- ◆ The basic feature or functionality already exists in the previous release of the software.
- ◆ The change adds to or extends the current process. This differs from a revision (i.e., a bug fix) which corrects a problem not caught in the previous release of the software.

**Enhancements
Summarized**

No enhancements have been added to this release.

What's Revised?

A revision is defined as a correction made to any existing form, feature, or function currently resident in a previous version of software. To qualify as a revision, the change must satisfy the following criteria:

- ◆ The basic form, feature, or functionality must be part of the previous version of the software.
- ◆ The change must replace the current item or remove it from the application.

Revisions Summarized

The table below summarizes the revisions included in this Maintenance Release.

Module	Revision	SCR or TPID/CR ID	Page
Database Manager	Database rebuild failed when the Database was restarted	40498/ N/A	13
KDS	KDS Controller became unresponsive with heavy loads	40536/ N/A	13
MDS HTTP Service	mTablet network communications were slow	40391/ 35016	13
PINpad.dll	VivoPay 4800 message was incorrectly parsed when AmEx was tapped	40481/ 32501	14
Printing	Chained IDN printers, connected to an mTablet R-series device, could result in an error and orders not printing	40537/ N/A	14
Reports	By Design: Previewing report output never times out	66202/ N/A	15

**Revisions
Detailed**

Database Manager

Database rebuild failed when the Database was restarted

SCR #: 40498

CR ID #: N/A

Previously, if the Micros.DB was restarted while the database rebuild was in progress, the database rebuild would fail when it tried to copy the rebuilt database back into the Data folder. This has been corrected. Now, we rename the old .DB file to Micros.DBORG to prevent this from occurring. The Micros.DBORG file is left in case it should be needed as a backup. If another rebuild is done, the first Micros.DBORG will be overwritten by the new one.

KDS

KDS Controller became unresponsive with heavy loads

SCR #: 40536

CR ID #: N/A

Previously, KDS could become unresponsive at heavy loads. This has been corrected.

MDS HTTP Service

mTablet network communications were slow

SCR #: 40391

CR ID #: 35016

Previously, performance was slow on the mTablet for interface inquiry and other functions. This especially impacted Romanian customers using fiscal printers, which is a SIM interface. This has been corrected.

MDS HTTP Service was modified to handle persistent connections to clients. mTablet network communications are now faster for Wireless and Ethernet connections. Speed and time to 'Start RES' (load POS Operations on the mTablet) and general POS Operations performance are improved.

PINpad.dll

VivoPay 4800 message was incorrectly parsed when AmEx was tapped

SCR #: 40481

CR ID #: 32501

Reliability fixes were made for the VivoPay RFID payment device. The VivoPay 4800 message was incorrectly parsed when an American Express card was tapped. When attempting to use Tap and Pay with an American Express card, Ops displayed the error "Credit Card Type Not Found" and all subsequent attempts to Tap and Pay were ignored.

Printing

Chained IDN printers, connected to an mTablet R-series device, could result in an error and orders not printing

Target Process ID#: 40537

CR ID #: N/A

Previously, when sending an order to two "daisy chained" IDN printers connected to an mTablet R-series device, the second printer failed to complete the print job and a "Printer Communications Failure" error appeared in POS Operations. After pressing OK to the error and sending another order, the second device completed the previous print job by cutting the chit paper and then failed to complete the cutting job again. This has been corrected. The closing and re-opening of COM ports has been updated to prevent the COM port from being closed during IDN chained printing.

Reports

By Design: Previewing report output never times out

Target Process ID#: 66202

CR ID #: N/A

When previewing a report in (*POS Configurator / Reporting / Autosequence Steps / Report / 'Preview report output'*), the Autosequence Step does not finish until the Report Viewer window is closed. Once a report is running, the timeout feature is disabled; if no autosequence or report is running, the timeout will still work. Only one report will run at a time. This is by design.

Maintenance Release 1A

What's New?

A new feature is defined as one that provides capabilities that were not available in previous versions of the application.

New Features Summarized

No new features have been added to this release.

What's Enhanced?

An enhancement is defined as a change made to improve or extend the functionality of the current 3700 POS application. To qualify as an enhancement, the change must satisfy the following criteria:

- ◆ The basic feature or functionality already exists in the previous release of the software.
- ◆ The change adds to or extends the current process. This differs from a revision (i.e., a bug fix) which corrects a problem not caught in the previous release of the software.

Enhancements Summarized

No enhancements have been added to this release.

What's Revised?

A revision is defined as a correction made to any existing form, feature, or function currently resident in the RES Version 5.1 software. To qualify as a revision, the change must satisfy the following criteria:

- ◆ The basic form, feature, or functionality must be part of the previous version of the software.
- ◆ The change must replace the current item or remove it from the application.

Revisions Summarized

The table below summarizes the revisions included in this Maintenance Release.

Module	Revision	SCR/ CR ID	Page
KDS	KDS MediaViewer showed unknown error after upgrading from IE9 to IE10	40437/ N/A	18
	Chits mistakenly showed "Ordering"	58621/ N/A	18
Licensing	Grace period ended prematurely after License Manager reloaded	40545/ N/A	19
Setup	Unable to install RES 5.2 MR1 with MICROS and DATABASE on different drives	40500/ N/A	19

Revisions
Detailed

KDS Display

KDS MediaViewer showed unknown error after upgrading from IE9 to IE10

SCR #: 40437

CR ID #: N/A

Previously, after upgrading from Internet Explorer (IE) 9 to IE 10, running anything through KDS MediaViewer resulted in an unknown error. This has been corrected.

Chits mistakenly showed "Ordering"

Target Process ID#: 58621

CR ID #: N/A

Previously, when using Dynamic Order Mode (DOM), KDS chits could show the word "Ordering" at the bottom. This has been corrected.

Licensing

Grace period ended prematurely after License Manager reloaded

SCR #: 40545

CR ID #: N/A

Previously, after reloading License Manager, the grace period was terminated before the expiration date. This has been corrected.

Setup

Unable to install RES 5.2 MR1 with MICROS and DATABASE on different drives

SCR #: 40500

CR ID #: N/A

If the RES v5.2 server had the MICROS application files and database installed on separate drives, the 5.2 MR1 patch would successfully rebuild the database, but then fail to update it. This has been corrected. The 5.2 MR1A patch can be run directly on a 5.2 server and it will update the database successfully.

DB Update Failed

If a 5.2 MR1 installation failed on the database update as explained above, follow the steps below to complete the installation.

1. Run the 5.2 MR1A patch.

Database Manager will show: “Database is current. No update needed. Applying Micros Compressed Script to Database.”

The system thinks the Database is current because the rebuild succeeded previously, which updated the DB from SQL 11 to SQL 16.

2. After the 5.2 MR1A patch completes and reboots, take the Micros Control Panel to OFF.
3. Exit the Micros Control Panel.
4. Open a Command prompt window and execute this command:
DM -UIV

This will apply the ConvertDB.mbz5g2 script to the database, which also updates the db_version_num row in table db_version_cfg to 1714.

Maintenance Release 1

What's New?

A new feature is defined as one that provides capabilities that were not available in previous versions of the application.

New Features Summarized

The table below summarizes the new features included in this Maintenance Release.

Module	Feature	SCR/ CR ID	Page
Setup	Installation of RES 5 Gen2 Prerequisite or higher is required (installs Sybase 16)	40438/ N/A	23
CA/EDC	Added POS support for Mastercard Unique Terminal Acceptance ID	40287/ N/A	24

Module	Feature	SCR/ CR ID	Page
POS Configurator	Added new User Workstation option field for Unique Card Terminal Acceptance ID	40286/ N/A	24
	Added Tender/Media option to Mark Check as Pending Payment	40381/ N/A	25
	Added Touchscreen Function Key to Pickup Pending Payment Check	40381/ N/A	26
	Added Touchscreen Function Key to Pickup Authorization Screen Check (Bulk CC)	40368/ N/A	26
	Added RVC Touchscreen link for Bulk CC Payment screen	40368/ N/A	27
	Added new Touchscreen Template #123 for Credit Auth Finalize (Bulk CC)	40368/ N/A	28
	Added Touchscreen Function Key to Find Authorization Screen Check (Bulk CC)	40368/ N/A	28
	Added Touchscreen Function Key for Equal Payment Feature	40386/ N/A	29

Module	Feature	SCR/ CR ID	Page
POS Operations	Added ability to mark checks with pending credit card payments for later finalization	40337/ N/A	29
	Added support for Bulk Credit Card Authorization Tip Adjustment and Finalization	40368/ N/A	32
	Added support for Multiple Equal Amount Tendering	40386/ N/A	43
	Fixed Price Meals in COM Mode Enhancement	40343/ 134834 28	46
	Fixed Price Meal Course Item sorting	40346/ N/A	52
	Print Class options now apply to KDS	40340/ N/A	53
TMS User Interface	Support added for myreservations independent seating	40365/ N/A	54

**New Features
Detailed**

Setup

Installation of RES 5 Gen2 Prerequisite or higher is required (installs Sybase 16)

SCR #: 40438

CR ID #: N/A

The RES 5 Generation 2 (RES 5 Gen2) Prerequisite Patch must be installed prior to upgrading a system to RES v5.2 MR1. Please refer to the [RES5_Gen2_Prereq_Patch_MD.pdf](#) prior to upgrading.

CA/EDC

Added POS support for Mastercard Unique Terminal Acceptance ID

SCR #: 40287

CR ID #: N/A

Support was added for the Mastercard Unique Terminal Acceptor ID. This ID is loaded from the user workstation table of the database and passed to the credit card server for credit card transactions. RES currently adds this new ID in the Auth Request Message. However, RES does not send it on to the Host Processor (pending driver development to support the new ID).

POS Configurator

Added new User Workstation option field for Unique Card Terminal Acceptance ID

SCR #: 40286

CR ID #: N/A

A new option has been added to configure an attribute of a user workstation to be the "Card Acceptor Terminal ID".

Configuration

1. Navigate to *POS Configurator / Devices / User Workstations / General*.
 - **'Master Card Unique Acceptor Terminal ID'**

General Rules

- ◆ The ID number can be configured with a maximum of 20 alphanumeric characters.
- ◆ The ID must be unique and workstations cannot have the same ID.
- ◆ The ID can be blank.

Added Tender/Media option to Mark Check as Pending Payment

SCR #: 40381

CR ID #: N/A

A new Service Total option was added in POS Configurator to indicate checks that are pending payment. When this new '**Mark Check as Pending Payment**' option is enabled, checks that have been credit authorized for the full check amount will not be shown in the Open Check SLU, and the check closing time will be set to the pending payment time once the check is finalized.

Configuration

1. Navigate to *POS Configurator / Sales / Tender/Media / Service TTL*.
 - '**Mark Check as Pending Payment**'



*Note: When the option '**Mark Check as Pending Payment**' is enabled, the table is treated as Paid. This allows the table to be re-used without tying up the table until the server enters charge tips at the end of a shift.*

Added Touchscreen Function Key to Pickup Pending Payment Check

SCR #: 40381

CR ID #: N/A

A new function key has been added to the POS Configurator to act as an Open Check SLU for credit transactions that were marked as pending payment. This new 'Pickup Pending Payment Check' key displays pending checks only. All other open checks can still be accessed using the standard Open Check SLU key (non-pending credit transactions).

1. Navigate to *POS Configurator / Devices / Touchscreen Designer* and add (+) this new function key on the desired touchscreen (e.g., on current touchscreen(s) where the Open Check SLU key is located).
 - CATEGORY — Function: Check Access
 - FUNCTION — Pickup Pending Payment Check

Added Touchscreen Function Key to Pickup Authorization Screen Check (Bulk CC)

SCR #: 40368

CR ID #: N/A

A new function key has been added to the POS Configurator to allow the operator to pick up an authorization screen check from the new Bulk Credit Card (CC) touchscreen. The operator simply highlights the desired pending credit transaction in the Bulk CC List Area and presses the 'Pickup.Authorization Screen Check' key. This action changes to the programmed Payment Screen and displays the check detail. The operator can then apply the tip and finalize the credit transaction. (Refer to the sample screen on page 36.)

1. Navigate to *POS Configurator / Devices / Touchscreen Designer*. Locate the Bulk Credit Card touchscreen and add (+) this function key:
 - CATEGORY — Function: Check Access
 - FUNCTION — Pickup Authorization Screen Check

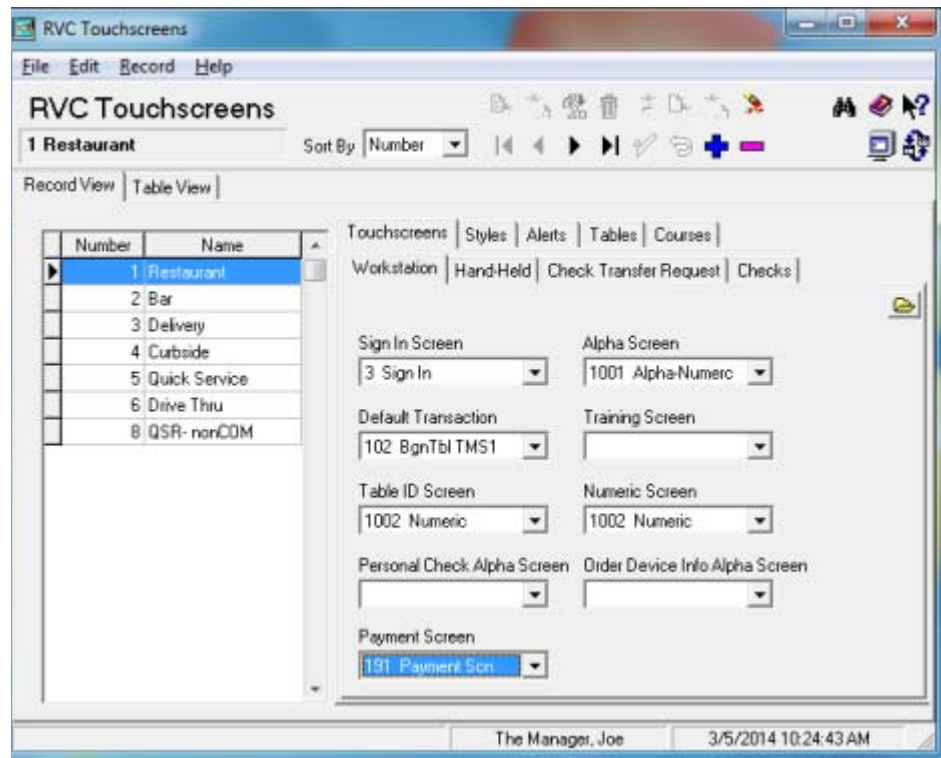
Added RVC Touchscreen link for Bulk CC Payment screen

SCR #: 40368

CR ID #: N/A

A new RVC Touchscreen drop-down has been added to the Workstation form in the POS Configurator. This provides a link to the designated 'Payment Screen' that is displayed in POS Operations along with the check detail, when the 'Pickup Authorization Screen Check' key is pressed from the Bulk Credit Card touchscreen.

1. Navigate to *POS Configurator / Revenue Center / RVC Touchscreens / Workstation*.
2. Click the 'Payment Screen' drop-down and select the desired payment screen from the available touchscreens.



Added new Touchscreen Template #123 for Credit Auth Finalize (Bulk CC)

SCR #: 40368

CR ID #: N/A

A new touchscreen Template #123 (Credit Auth Finalize) has been added to the OpsDisplaySys.cfg file to accommodate the Bulk Credit Card feature. This new template displays all pending credit card transactions in list format so they may be easily selected by the operator for tip adjustment and/or payment. (Refer to pages 34 through 37 for more details and POS Configurator screen examples.)

Added Touchscreen Function Key to Find Authorization Screen Check (Bulk CC)

SCR #: 40368

CR ID #: N/A

A new function key has been added to the POS Configurator to allow the operator to “find” an authorization screen check. This key should be added to the new Bulk Credit Card (CC) touchscreen. The operator can press the ‘Find Authorization Screen Check’ key and a dialog window opens in POS Operations that prompts with “Enter Check Number”. Simply enter the desired check number and press OK. The system will locate and highlight this check number in the Bulk CC List Area of the screen. Then the operator can enter the credit card payment amount, including tip, to finalize and close the check.

1. Navigate to *POS Configurator / Devices / Touchscreen Designer*. Locate the Bulk Credit Card touchscreen and add (+) this function key:
 - CATEGORY — Function: Check Access
 - FUNCTION — Find Authorization Screen Check

Added Touchscreen Function Key for Equal Payment Feature

SCR #: 40386

CR ID #: N/A

A new function key has been added to the POS Configurator to provide a means to divide a guest check into the desired number of equal payments. On the payment touchscreen, the operator presses the Equal Payment key and is prompted with “Enter the Number of Equal Payments”. The operator enters the number of payments needed using the numeric keypad provided. The equal payment information is then displayed in the check detail area of the screen. Each payment can then be selected and tendered separately. (Refer to page 43 for more details on this feature.)

1. Navigate to *POS Configurator | Devices | Touchscreen Designer*. Locate the Bulk Credit Card touchscreen and add (+) this function key:
 - CATEGORY — Function: Transaction
 - FUNCTION — Equal Payment

POS Operations

Added ability to mark checks with pending credit card payments for later finalization

SCR #: 40337

CR ID #: N/A

With this release, POS Operations is now able to mark checks where the credit card has been authorized for the full amount, but not finalized. The check is “marked” as pending payment using a new option available for a Service Total key type (refer to the new POS Configuration option on page 25). The pending payments checks do not appear on the Open Check SLU or the table view. The new check access function called “Pickup Pending Payment Check” lists all checks (open checks as keys) that require payments to be finalized and allows these checks to be re-opened.

The “Pickup Pending Payment Check” displays all pending payment checks belonging to the signed-in employee. If an employee is privileged to pick up checks belonging to other employees, then the display also includes all checks that are pending payments in the revenue center. When a check is marked as pending payment, the Paid icon displays briefly on the table object.

Each pending payment check shows the check number, table number (if available), the “pending payment” time, check total, and a list with the last 4 digits of all un-finalized Credit Card account numbers. Check details are not displayed.

Pending Payment Checks that contain Credit Authorizations cannot be transferred from one Revenue Center (RVC) to another. For example, a server has a number of Pending Payment Checks that were rung up in the Restaurant RVC. It is now the end of his/her shift and tips need to be applied to these checks. The cashier in the Bar RVC cannot transfer Pending Payment Checks from the Restaurant RVC into the Bar RVC. If the cashier/bartender presses the **Pickup Pending Payment Check** button, they will receive the error “No Open Checks”. Additionally, if the cashier/bartender presses the **Bulk Credit Card** key, these Pending Payment Checks will not appear and cannot be retrieved.

The server/cashier who originated the Pending Payment Checks must return to a workstation in the same RVC (i.e., Restaurant) and enter or adjust the charge tips. The Pending Payment Checks can only be picked up or viewed from the Bulk Credit Card List Area from the original RVC.

Important *If a check that has been marked as ‘Pending Payment’ needs to be transferred from one operator to another within the same Revenue Center, the Check Transfer Request function must be used for those servers that do not have the privilege to access another employee’s checks. Refer to **RES46_RMF.pdf: MD0003-145** for details on programming this feature.*

Configuration

The new option '**Mark Check as Pending Payment**' (located in *POS Configurator / Sales / Tender/Media / Service TTL*) can be set to a Service Total key (either an existing or new key). A server can use this Service Total key during their shift to "put away" checks with Credit Authorizations until their shift ends. At this time, the server can select a check, add the tips to these checks and credit finalize the transactions.



*Note: Credit Finalization can now be done using the new Bulk Credit Authorization List touchscreen. Please refer to **Added support for Bulk Credit Card Authorization Tip Adjustment and Finalization on page 32** for information about this feature.*

A new function: Check Access Key has been added called "Pickup Pending Payment Check" (located in *POS Configurator / Devices / Touchscreen Designer*) to allow the server to pick up a pending check using an Open Check SLU key. Only open checks that contain credit card authorizations that have been marked as pending payments will appear when this new check access key is pressed. All other checks will display under the standard Open Check SLU key.

1. Select the new '**Pickup Pending Payment Check**' key, and all open credit auth related checks appear (as Open Check SLUs).
2. Select the desired check key and verify check detail.
3. Enter the Total value, including Tip, and click the **Finalize Credit Card** button.
4. A confirmation message will appear indicating the charged tip amount. Select '**Yes**' to confirm (or '**No**' to cancel tip).
5. The system will perform additional authorization (if needed) and update the customer with the state of the authorization (Authorizing..., Approved, Declined, or errors).
 - If the Total value is blank, the system will consider the CC Auth amount as the final amount.

6. If successful, a tender will be posted to the database.
7. If more than one un-finalized credit card authorization exists on the current check, highlight the next credit authorization. Enter the total value, including tip, and continue until the entire balance due is satisfied for this guest check and the check is closed.
8. If a check is not paid in full (existing tender does not cover the check balance) a warning message will appear and the check will remain open in the system.
9. Once the operator has finalized all payments on a given check, the check key will be closed in the system and that check SLU will be removed from the available open checks on this touchscreen.

Reports

The following regular and 40-column reports are associated with the Mark Check As Pending Payment feature:

- ◆ Employee Open Guest Checks
- ◆ Employee Pending Payment Guest Checks
- ◆ Employee Open and Pending Payment Guest Checks

Added support for Bulk Credit Card Authorization Tip Adjustment and Finalization

SCR #: 40368

CR ID #: N/A

Support has been added to display a list of Credit Authorizations and to finalize a selected authorization. The Credit Authorization Finalize area now displays the Credit Authorization payments, Tip value, and Tip percentage.

A new Payment Touchscreen revenue center option was added for use when picking up a check from the Credit Authorization Finalize screen.



Note: If you open the Bulk Credit Card List Area touchscreen and there is no credit card data listed (but you should have data), this indicates that a check was opened prior to opening the Bulk Credit Card List Area touchscreen. Exit from the Build Credit Card List Area touchscreen and press the Transaction Cancel function key to close this open check. Then Sign In again and press the Bulk Credit Card key. All credit card records can now be viewed in the List Area.

A new Pickup Authorization Check key code was added to pick up a check that is open or perform an edit closed check if it has already been paid in full. A double-click ability was also added to trigger the new Pickup Authorization Check keycode.

In addition, another new function key has been added to allow the ability to 'Find Authorization Screen Checks'. This provides a faster way to locate a pending payment check when the number of checks exceeds the Bulk CC List Area and the operator just needs to find a particular check by number (rather than using the scroll bar to scroll through multiple pages of checks).

After the pending payment credit card transactions are settled via the Credit Card Batch application, they no longer appear in the Bulk Credit Card List area.

After a check has been batched via the Credit Card Batch application, the user cannot adjust the charge tip. If attempted, POS Operations will display the error "Not Allowed During Edit of Batched Check", which is consistent with non-pending payment checks.

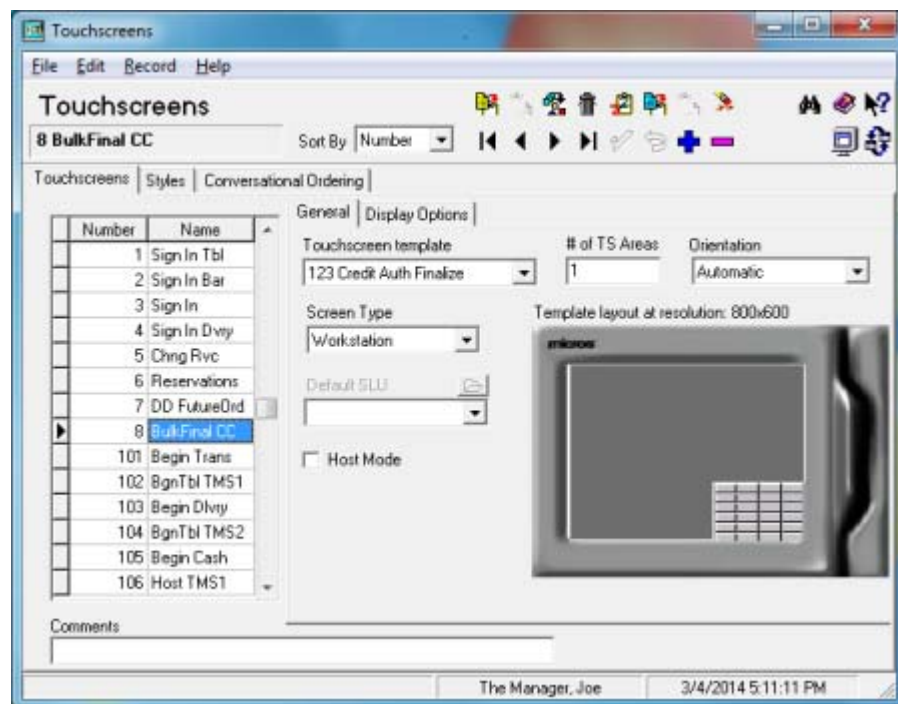
Known Limitation

The new Bulk Credit Card Authorization feature is not supported on Handheld devices.

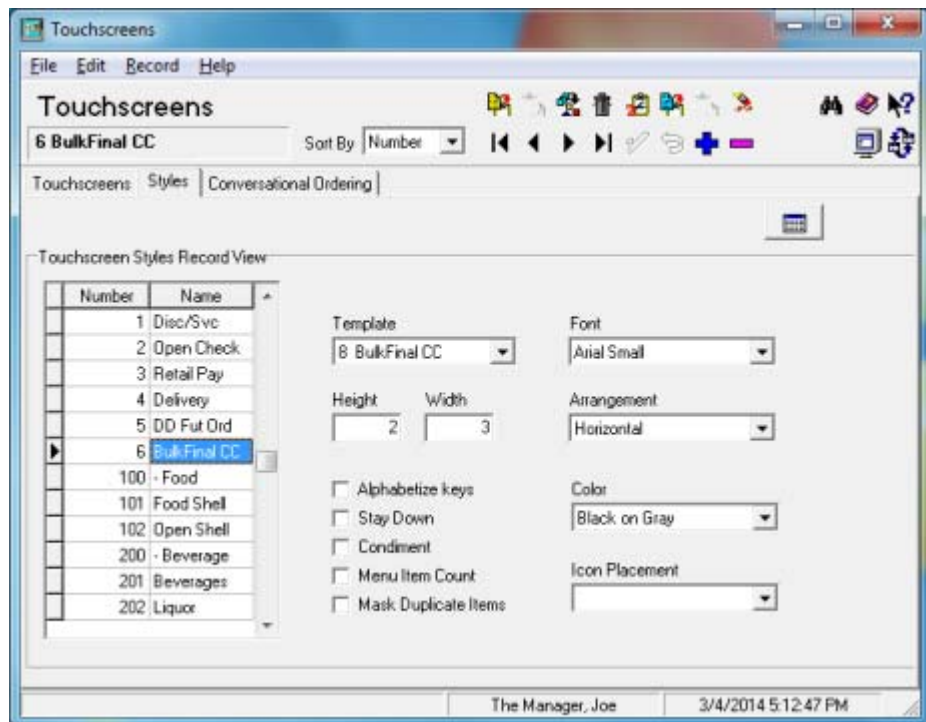
Configuration

The Bulk Credit Card Authorization touchscreen requires a new template, as well as a touchscreen with the necessary function keys needed to perform the Bulk CC tip adjustments and Credit Card Finalizations.

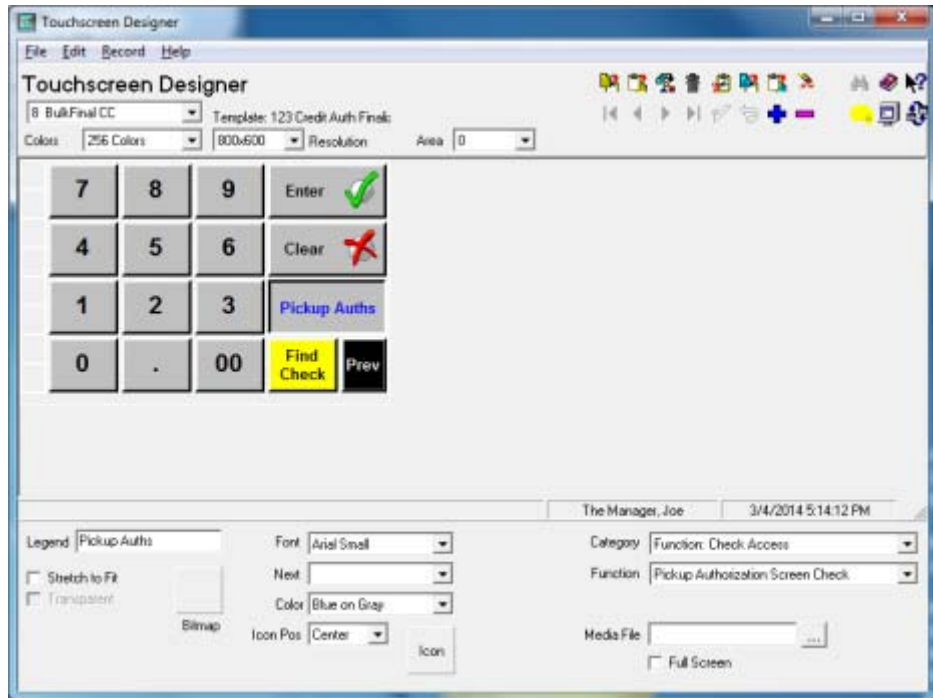
1. Navigate to *POS Configurator / Devices / Touchscreens / Touchscreens* and add (+) a new touchscreen. In the example below, record 8 (Bulk Final CC) is used to link the new required Template #123 Credit Auth Finalize.



2. Once a new touchscreen (TS) has been configured, then create a TS Style. Navigate to *POS Configurator / Devices / Touchscreens / Styles* and add (+) a new style for this touchscreen. In the example below, record #6 named Bulk Final CC is linked to new touchscreen record #8 (from step 1).



3. Navigate to *POS Configurator / Devices / Touchscreen Designer* and select the new Touchscreen #8 created in step 1. In the first example below, you see the basic keys needed to handle tip adjustments, credit finalizations and keys needed to Pickup Pending Authorization Checks.



In the second Bulk CC Final example, the new Template #123 displays above the keypad created in Touchscreen record #8. This is how the entire touchscreen will appear in POS Operations when the Bulk CC Function Key is pressed.

The screenshot displays the '3700 POS Operations' interface. At the top, there is a table with columns: Chk#, Chk ID, Table, Employee, Account, Auth Code, Auth Total, Tip, Tip %, and Payment. The table contains 17 rows of transaction data. Below the table, a yellow bar reads 'Ready For Your Next Entry'. At the bottom right, there is a numeric keypad with buttons for digits 0-9, a decimal point, a '00' button, and function buttons: 'Enter' (with a green checkmark), 'Clean' (with a red X), 'Pickup Auths', 'Find Check', and 'Print'.

Chk#	Chk ID	Table	Employee	Account	Auth Code	Auth Total	Tip	Tip %	Payment
830		10		XXXX3333		15.00	1.88	12.4%	15.00
831		11		XXXX1111		13.98	2.00	16.7%	13.98
832	Brad T.	12		XXXX9248		28.00	3.00	12.0%	28.00
833		10		XXXX1004 323406		13.34			
834		13		XXXX1111 334107		14.41			
835		10		XXXX3012		32.00	1.61	5.3%	32.00
836		20		XXXX3333 354109		15.41			
837	Susan F.	10		XXXX1004 363210		19.32			
838		12		XXXX3012		16.87	6.00	55.2%	16.87
839		21		XXXX4567		29.28	3.00	11.4%	29.28
840		23		XXXX1023 399513		14.95			
841		10		XXXX8615 401214		17.12			
842	John S.	11		XXXX3333 419615		23.96			
843		12		XXXX3012 423516		29.35			
844	Robert G.	11		XXXX4567 434917		15.49			
845		22		XXXX9248 449618		11.96			
846		12		XXXX7892 450419		26.04			

4. Navigate to *POS Configurator / Revenue Centers / RVC Touchscreens / Touchscreens / Workstation* and link the 'Payment Screen' that needs to appear next to the check detail when the 'Pickup Authorization Screen Check' key is pressed.

- 'Payment Screen'

Bulk Credit Card List Columns

- ◆ **Chk#** – This column lists the check numbers for pending payment credit transactions. All pending checks will include the ‘Auth Code’.
- ◆ **Chk ID** – This column includes the Guest Check ID (e.g., Brad S.) entered for this check. If Guest Check IDs are not used, this column will remain blank.
- ◆ **Table** – This column displays the table number for each guest check, if used, in this Revenue Center.
- ◆ **Employee** – This column displays the name of the employee that performed the credit authorization or the check employee, if they are the same.
- ◆ **Account** – This column lists a portion of the credit card account number to be used for cross-reference purposes. Only the last 4 digits are displayed, preceded by ‘XXXX’ for security reasons.
- ◆ **Auth Code** – This column contains the credit authorization code received from the Host Processor for the corresponding account number. If more than one authorization was obtained for the same card number, this will reflect the last auth code received.
- ◆ **Auth Total** – This is the authorization amount for this check. If more than one authorization was obtained for this check, this total reflects the total of all authorizations for this check.
- ◆ **Tip** – This is the tip amount entered for this check number.
- ◆ **Tip Percentage** – The Tip Percentage column contains the configurable Tip % alert indicators so that the system can display an icon when the tip percentage value is unusually high or low. The current default values are located in the OpsDisplaySys.cfg file and colorization for the various Tip Percentages have been added. See the Tip Alert list below:
 - TipAlert High 15, 0, Black
 - TipAlert High 8, 0, Gray

- TipAlert Low 8, 10387, Red
 - TipAlert High 20, 0, Green
 - TipAlert High 25, 10388, Blue
 - TipAlert High 50, 10386, Red
- ◆ **Payment** – This column reflects the last credit finalization amount, after tip adjustments. If there were no tips added, the Payment amount will be the same as the Auth Total column.

POS Operations Instructions

1. To perform a Tip Adjustment and/or Credit Finalize a transaction using the new Bulk Credit Card List touchscreen, simply Sign In and press the **Bulk CC** key. (Note that the user name was configured when the key was added in TS Designer.)

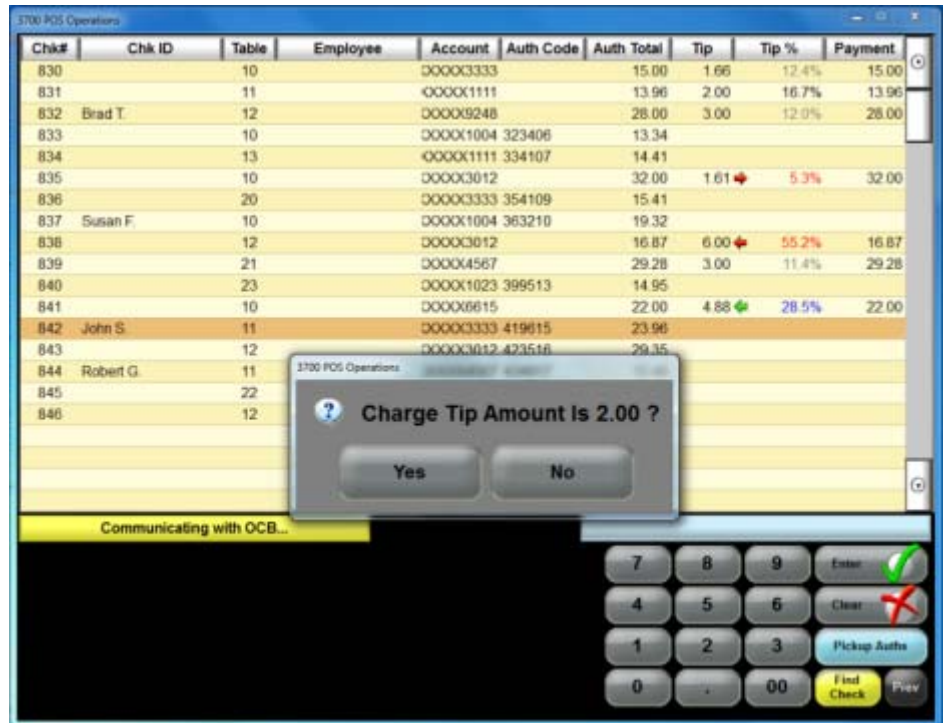
- Highlight the check number desired (e.g., Chk# 842 for \$23.96 in the example below).

The screenshot shows a software interface titled "POS Operations". It features a table with columns: Chk#, Chk ID, Table, Employee, Account, Auth Code, Auth Total, Tip, Tip %, and Payment. The row for Chk# 842 is highlighted in orange. Below the table is a yellow bar with the text "Ready For Your Next Entry". At the bottom right is a numeric keypad with buttons for digits 0-9, a decimal point, a "00" button, and function buttons: "Enter" (with a green checkmark), "Clear" (with a red X), "Pickup Auths", "Find Check", and "Prev".

Chk#	Chk ID	Table	Employee	Account	Auth Code	Auth Total	Tip	Tip %	Payment
830		10		XXXX3333		15.00	1.66	12.4%	15.00
831		11		XXXX1111		13.96	2.00	16.7%	13.96
832	Brad T.	12		XXXX8248		28.00	3.00	12.0%	28.00
833		10		XXXX1004 323406		13.34			
834		13		XXXX1111 334107		14.41			
835		10		XXXX3012		32.00	1.61	5.3%	32.00
836		20		XXXX3333 354109		15.41			
837	Susan F.	10		XXXX1004 363210		19.32			
838		12		XXXX3012		16.87	6.00	55.2%	16.87
839		21		XXXX4567		29.28	3.00	11.4%	29.28
840		23		XXXX1023 399513		14.95			
841		10		XXXX8615		22.00	4.88	28.5%	22.00
842	John S.	11		XXXX3333 419615		23.96			
843		12		XXXX3012 423516		29.35			
844	Robert G.	11		XXXX4567 434917		15.49			
845		22		XXXX8248 449618		11.96			
846		12		XXXX7892 450419		26.04			

- Enter the total amount, including tip, and press the **Enter** key (e.g., \$25.96).

4. POS Operations prompts with “Charge Tip Amount is 2.00?” (Yes/No).



5. Select **Yes** to confirm the tip amount.
6. A copy of the guest check is printed and the check is closed in the system.

Tip Adjustment

7. If a mistake was made, for Chk# 842 in the previous example, simply press the **Bulk CC** key and the last check remains highlighted when the form opens.
8. Enter the new adjusted Credit Final amount, including tip adjustment (e.g., \$27.00) and press the **Enter** key.
9. POS Operations prompts with “Charge Tip Amount is 3.04?” (Yes/No). Select **Yes** to confirm the tip and finalize this credit transaction. (Note that the ‘Auth Total’ column is now adjusted to \$27.00, as well

as the 'Payment' column. The 'Auth Total' column reflects the total of all authorizations for this check.)

- 10. The adjusted guest check prints "Closed Check Edit" (in bold face print).

Additional Operational Tips:

- ◆ To open a check and add a tip in the conventional manner, viewing the check detail, the operator can use the scroll bar to locate the check in the Bulk Credit Card List and then highlight and press the 'Pickup Authorization Screen Check' key.
- ◆ To view the check detail for any check, the operator can also simply highlight the desired check in the Bulk CC List and double-tap to open the check (Double-Tap feature).



- ◆ To find a check that is not on the Bulk CC touchscreen, press the 'Find Authorization Screen Check' key and enter the check number.

Added support for Multiple Equal Amount Tendering

SCR #: 40386

CR ID #: N/A

The Equal Amount Tendering feature allows the operator to evenly divide a check into the number of payments requested by the customer. The operator simply navigates to the payment screen and presses the 'Equal Payment' key. POS Operations will prompt the user to enter the number of equal payments, if the operator has not already specified this number prior to pressing this key. POS Operations then displays "*Enter The Number Of Equal Payments*" using the numeric keypad provided.

This allows the operator to enter the number of equal payments needed to tender the current Amount Due of a check. There is no limit to the tender type used. It can be a credit card authorization or a payment, gift card, cash, etc.

Business Rules

1. Once the equal payment mode is turned on, the operator is not allowed to modify the check in any way. A proper error message will be displayed.
2. The check should not be in filter seat mode to activate the equal payment mode.
3. The operator can exit from equal payment mode by pressing the Cancel key (similar to exit from filter seat mode). Any applied tenders before the cancel will remain on the check.
4. If the operator service totals the check, POS Operations will in turn cancel the equal payment mode.
5. The logic to split the amount into equal shares will be the same as the one currently used to print shared checks. (See *POS Configurator / Sales / Tender/Media / Printing*, 'Print shared check'.)

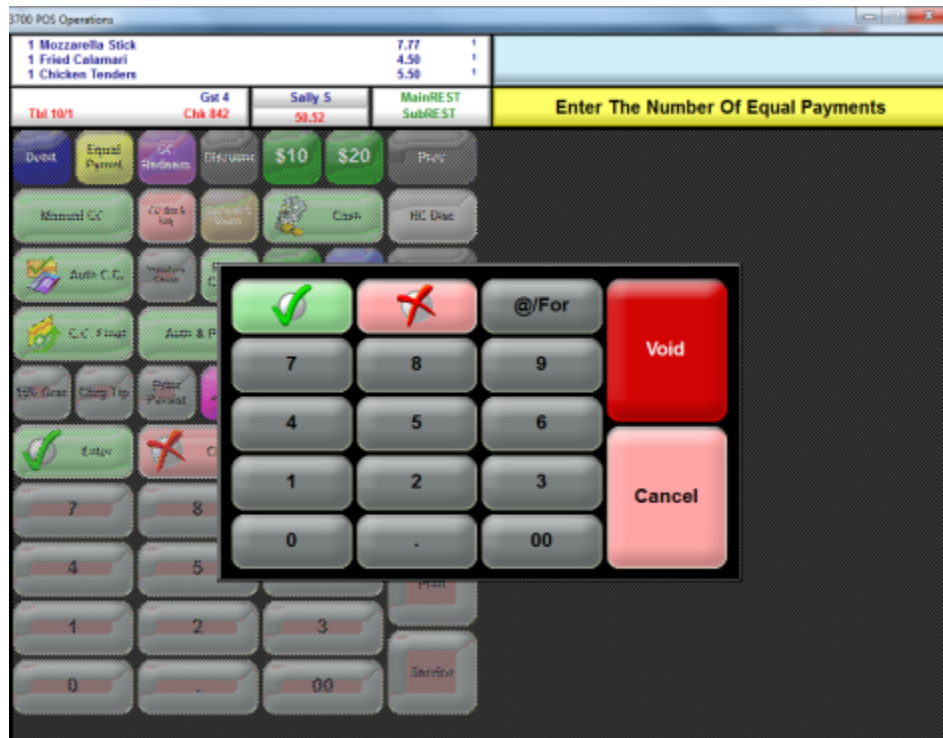
Configuration

1. Navigate to *POS Configurator / Devices / Touchscreen Designer*.

2. Configure this new function key by selecting the following settings from each drop-down:
 - Category — Function: Transaction
 - Function — Equal Payment

POS Operations Instructions

1. When ringing a check in POS Operations, the user will be prompted with “Enter The Number Of Equal Payments” using the numeric keypad provided.



- After entering the number of payments, the Check Detail portion will prompt the user to enter the first payment.



Note: If a credit card Auth existed prior to beginning the equal payment function, the user will be prompted to re-use the card presented for the initial Auth.

- In the Check Detail screen, each equal payment is indicated, as well as any remaining balance.

The screenshot shows the POS Operations software interface. The top bar displays '700 POS Operations'. Below it, there are tabs for 'Ttl 10/1', 'Gst 4 CNA 941', 'Sally 5', and 'MainREST SubREST'. A yellow banner at the top of the main area says 'Press Clear To Exit Equal Payment'. The main area is divided into two columns. The left column lists items and their prices:

1 Mozzarella Stick	7.77	1
1 Fried Calamari	4.50	1
1 Chicken Tenders	5.50	1
1 Potato Skins	5.95	1
1 Soup Of Day	3.00	1
1 Onion Soup	5.00	1
1 Clam Chowder	5.75	1
1 Potato	4.00	1
1 Coke	1.25	1
1 Diet Coke	1.25	1
1 *Coffee/Tea	1.25	1
1 Iced Tea	1.25	1
Enter Equal Payment 1 of 4	12.63	
Equal Payment 2	12.63	
Equal Payment 3	12.63	
Equal Payment 4	12.63	
Equal Payment Remaining	50.52	

The right column contains a grid of buttons for payment processing, including 'Debit', 'Equal Pymnt', 'GC Redeem', 'Discount', '\$10', '\$20', 'Prev', 'Manual CC', 'CC Bal 5 Inq', 'OnCredit C. Vouch', 'Cash', 'HC Disc', 'Auth C.C.', 'Transfer Check', 'Room Charge', 'PMS Inquire', 'Toggle AutoDisc', 'Functn', 'C.C. Final', 'Auth & Pay', 'Postup Pay (RFD)', 'Void', '15% Grat', 'Chg Tip', 'Print Persist', 'Add AuthDis', 'Remove AuthDis', 'Cancel Order', 'Trans Cancel', 'Enter', 'Clear', '@/For', 'Seat #', a numeric keypad (0-9, ., 00), 'Filter Seat', 'Print', and 'Service'.

At the bottom left, a red banner displays 'Eat In Ttl 50.52'.



Note: The operator will not be allowed to override the equal payment amount. Any input at this point will be ignored by POS Operations.

4. When POS Operations iterates through each equal payment, it will exit from the equal payment mode.

Fixed Price Meals in COM Mode Enhancement

SCR #: 40343

CR ID #: 13483428

RES 5.2 MR1 now has the ability to handle Fixed Price Meals in Conversational Ordering Mode (COM). In previous versions of RES, it was necessary to order each Fixed Price Meal (FPM) one by one, which was too time consuming for large parties (e.g. 12 or more). By enhancing FPM's to operate in COM mode, orders can be entered utilizing Build Screens. In addition, COM provides the ability to enter multiple FPM child items, as well as parent items, utilizing the enhanced Quantity key functionality that Conversational Ordering Mode provides.

Important *For more detailed information on COM mode, refer to **Restaurant Enterprise Series Conversational Ordering Mode Information and Configuration Guide (MD0003-131)**, available on the MICROS Member Services website.*

Configuration

1. Enable Conversational Ordering Mode (COM) for each Revenue Center using this feature. This option is located in *POS Configurator / Revenue Center / RVC Transactions / General*. Enable the option '**Conversational Ordering Mode**'.
2. Per important note above, you will need to set up COM Build Screens, per your customer's requirements. In the examples to follow, the RES Sample database containing some existing Fixed Price Meals was modified to illustrate this feature.

3. To designate a Menu Item as a Fixed Price Meal (FPM) type, enable the option '**Fixed Price Meals**' in the *POS Configurator / Sales / Menu Item Classes / Price/Totals*.

For details on programming FPMs, open POS Configurator and click on the book (?) icon in the upper right corner. Under Feature Reference click 'F-K', expand the letter F, and open the Fixed Price Meals help topic. This will provide a general description of this feature and more configuration details.

4. Fixed Price Meal COURSES need to be set up in the *POS Configurator / Sales / Courses / Courses tab*, and also under the *Course Membership tab*, where each course is checked that is a part of the FPM. These settings create the specific FPM Course selections that appear in Tab format on the COM Build screen.
5. An Edit By Seat key needs to be configured to use FPM's properly in COM. Navigate to *POS Configurator / Devices / Touchscreen Designer* and select the desired COM Build Screen. Then configure the following key settings:
 - CATEGORY — Function: Seat
 - FUNCTION — Edit By Seat
6. In addition, a Print Seat Check key needs to be configured to print by seat with FPM's in COM mode. Navigate to *POS Configurator / Devices / Touchscreen Designer* and select the desired COM Build Screen. Then configure the following key settings:
 - CATEGORY — Function: Tender/Media Number
 - FUNCTION — Seat Check



Note: This needs to be set up as a Service Total key, and under this Tender/Media key Printing options enable: *Print Check, Print memo check, and Print check for active seat.*

7. To tender an order, you must press the Edit By Seat key to view each seat in filter mode. Each individual seat can then be paid, one by one, by double-tapping the seat number header in the check detail portion of the POS Operations touchscreen. (No special configuration is needed to be able to pay the check. The 'Edit By Seat' key in step 3 above is used to filter out each seat prior to payment.)

POS Operations Instructions

Example A

In the Fixed Price Meal (FPM) example below, modifications were made to the QSR Revenue Center options and related COM build screens, along with FPM Course Membership settings to create the Tabs seen in this example (e.g., Soups/Salad (Course 1) and Entrée (Course 2)).

1. The SLU Group "Specialties/FPM" key is pressed.
2. The operator enters each FPM (e.g., "Lunch Special #1").
3. The next COM build screen calls the FPM Course item selections (listed under each Tab).
4. After each FPM Course item (e.g., "Soup Of Day" for Soup/Salad selection), you **MUST** press the QUANTITY key, even if it is only one. This is needed to take the user to the next required FPM Course Tab along with the menu items allowed (e.g., next Course is ENTRÉE) in the example below).
5. Press the next Course item (e.g., "Chkn Fettucine").

- Once all FPM Courses have been satisfied in POS Operations, the user then presses the 'Edit By Seat' key so that all FPM's appear filtered by seat and in an orderly fashion.



- Prior to accepting Payment for the orders, go to the Payment COM build screen, which is the suggested location for the PRINT SEAT CHECK service total key. This will print out a copy of the check by each seat number, with the items listed below each seat.
- Pick up this check and press the 'Edit By Seat' key to display FPM's by seat.
- Once FPM's have been filtered, then simply double-tap the desired seat number and tender this seat.
- The "Press Clear To Continue" prompt will appear. Press the Clear key to advance to the next seat (see next screen image).

11. Once all seats have been paid, the check will be closed in the system.



Note: Quantity keys in COM Mode can also be used to enter multiple FPM's (parent items). This also applies to Courses (child items). In this case, the parent item is selected first and then the QTY key is pressed.

Example B

The following example details the process required to ring a FPM using the COM Quantity keys and a condiment with Reference Required.

1. Press the FPM key (i.e., Dinner Special).
2. Press the (3) quantity key on the COM Build screen. Three separate 'Dinner Specials' will appear.
3. The first Course Tab for the FPM is 'Soup/Salad'. Press 'Chowder' SLU and then select the quantity.
4. Press (3) and the Check Detail will show three 'Chowder' soups.
5. The COM Build screen then proceeds to the second Course Tab for this FPM, which is 'Entree'.
6. In this example, ring up one entree without a Special Prep and the remaining two with Special Prep instructions.
 - a) Ring the entree without the prep first. Press 'Tri Pasta' and select (1) for the quantity.
 - b) Press the 'Chk Breast' entree SLU. Then press 'Special Prep', which prompts for Reference entry.
 - c) Enter "Spicy" as the special prep info. instructions and press the Enter key.
 - d) Select (2) for the Quantity. This will clone the 'Chk Breast', as well as the 'Add Special Prep' and 'Spicy' in the Check Detail.



***Note:** The Server can enter the single entree first, followed by the quantity, followed by the multiple quantity entree with the special prep. Be sure to enter the Condiment with the Reference Info. BEFORE selecting the Quantity.*

7. Press PAY and CASH to finalize, or press the Service Total key for this guest check.

Fixed Price Meal Course Item sorting

SCR #: 40346

CR ID #: N/A

Fixed Priced Meals (FPM) in Conversational Ordering Mode (COM) will appear in the order entered in Check Detail.

1. To sort by course in the Check Detail, select the 'Edit By Seat' function key. This will display the FPMs in course order by each seat number.
 - FPM course items are displayed in course order by pressing the 'Edit By Seat' key.
 - When the Service Total key is pressed, the Edit By Seat mode is exited and the Check Detail is no longer sorted in course order. The Check Detail appears in the order in which the server rang the course items.
 - In the current round, when the server exits from Edit By Seat mode, the items will appear in the order in which they were rung.
 - Subsequent rounds will have these previous round items separated from the current round items, and the previous round items will be sorted appropriately.
 - In general, current round items go to the bottom as this makes it easier for the operator to see which items were added during the current round.

2. To print in course order, use the 'Print Seat Check' function key.



Note: When selecting the 'Edit By Seat' function key and then Service Totaling, the FPM Courses will print in the order in which they were entered (rather than sorting by Course Order), unless the 'Print Seat Check' key is used.

Print Class options now apply to KDS

SCR #: 40340

CR ID #: N/A

With this release, two Print Class options can allow a menu item's NLU and/or Barcode information to print to the KDS, along with other remote order devices (i.e., not just the printers). Prior to this release, the NLU always printed to the KDS. Now, the NLU option can be suppressed and can be set to no longer display on the KDS (as well as the Remote Print Device and Guest Check). Previously, the Barcode number never printed to the KDS. Now it can be printed to the KDS.

Configuration

1. Navigate to *POS Configurator / Sales / Menu Item Classes / Print*.
 - **'Print Barcode ID on Remote Order Device'**
 - **'Print NLU on Remote Order Device'**
2. When these options are disabled, the Barcode ID and/or NLU information will not display on the KDS.

TMS User Interface

Support added for myreservations independent seating

SCR #: 40365

CR ID #: N/A

Support has been added to mark a Reservation or Wait List request as fulfilled for clients who do not desire to use the full features of Table Management System (TMS). This feature allows the user to bypass the table selection requirement for customers making their own online reservations using the MICROS myreservations independent seating software. This is accomplished for Wait Lists and Reservations by disabling the Employee Class option '**Table entry required**'. Also, a new option '**Require table during seating**' must be disabled in RVC Table Management.

The MICROS myreservations software allows customers to make their own reservations online. In this case, table numbers are not used. These online reservations are then pushed down from the myreservations host to the appropriate store's RES system. When the customer arrives at the store location for their reservation, the manager/hostess seats the guest from the RES system via the POS Operations Waitlist Display.

Configuration

1. Navigate to *POS Configurator / Employees / Employee Classes / Transactions / Required Entries*. Disable '**Table entry required**'.
2. Navigate to *POS Configurator / Revenue Center / RVC Table Mgmt.* Disable '**Require table during seating**'.
3. Navigate to *POS Configurator / Devices / Touchscreen Designer*. Select the touchscreen and location for placement of this key, needed to seat a customer:
 - CATEGORY — Function: TMS
 - FUNCTION — Seat Waitlist Entry

4. Navigate to *POS Configurator / Devices / Touchscreen Designer*.
Select the touchscreen and location for placement of this key, needed to greet a customer (for Reservations only):
 - CATEGORY — Function: TMS
 - FUNCTION — Greet Table Entry



*Note: For more detailed information on RES Table Management and configuring a Waitlist display on a touchscreen, refer to the **RES41_RMF.pdf document (MD0003-098)** available on the MICROS member Services website.*

POS Operations Instructions

To Seat a customer from the Ops Waitlist display:

1. Simply highlight the customer in the POS Operations Waitlist display, and press the ‘Seat Waitlist Entry’ key on the touchscreen.

In the case of Reservations, versus Waitlist entries, the customer must be ‘Greeted’ prior to being seated.

1. Press the ‘Greet Table’ key.
2. Select the Reservation from the Waitlist display in Ops.
3. Then press the ‘Seat Waitlist Entry’ key.

Important For more information about MICROS myreservations, log in to the Member Services website: http://members.micros.com/members/product_support/micros_products/customersolutions/myreservations/default.aspx.

What's Enhanced?

An enhancement is defined as a change made to improve or extend the functionality of the current 3700 POS application. To qualify as an enhancement, the change must satisfy the following criteria:

- ◆ The basic feature or functionality already exists in the previous release of the software.
- ◆ The change adds to or extends the current process. This differs from a revision (i.e., a bug fix) which corrects a problem not caught in the previous release of the software.

Enhancements Summarized

The table below summarizes the enhancements included in this Maintenance Release.

Module	Enhancement	SCR/CR ID	Page
Database Engine	Database Engine Updated to Sybase SQL Anywhere 16	40329/ N/A	57
POS Configurator	Added new option 'Allow Zero Value Changes to Previous Round Item' (COM only)	40317/ N/A	57
POS Operations	Allow Zero Value Changes to Previous Round Item' added	40303/ 33313	58

**Enhancements
Detailed**

Database Engine

Database Engine Updated to Sybase SQL Anywhere 16

SCR #: 40329

CR ID #: N/A

The database engine has been updated in RES v5.2 MR1 from Sybase 11 to Sybase SQL Anywhere 16. Please refer to the **RES5_Gen2_Prereq_Patch_MD.pdf** for more information. Due to this database engine update, a new Prerequisite Patch is required prior to installing RES 5.2 MR1.

POS Configurator

Added new option 'Allow Zero Value Changes to Previous Round Item' (COM only)

SCR #: 40317

CR ID #: N/A

A new option **Allow Zero Value Changes to Previous Round Item** has been added to allow or prevent previous round changes that do not cause a price change.



Note: This new option is only valid when using *Conversational Ordering Mode (COM)*. COM must be enabled in POS Configurator | Revenue Center | RVC Transactions | General | **Conversational ordering mode**.

When the **Allow Zero Value Changes to Previous Round Item** option is enabled, the employee class will be allowed to make changes to an item that does not affect the price (i.e., add a condiment that does not change the menu item's price) after the check has been service totalled.

When the **Allow Zero Value Changes to Previous Round Item** option is disabled, authorization is required when changing a previous round item without price changes.

Configuration

1. Navigate to *POS Configurator / Employees / Employee Classes / Guest Checks / Guest Check Control*.
 - **'Allow Zero Value Changes to Previous Round Item'**

This new option was added to the existing options **Allow Changes to Previous Round Item** and **Allow Minor Changes to Previous Round Item**. When the new option **Allow Zero Value Changes to Previous Round Item** is enabled, the existing options are disabled.

POS Operations

Allow Zero Value Changes to Previous Round Item' added
SCR #: 40303
CR ID #: 33313

Previously with Dynamic Order Mode (DOM) enabled, employees with the options **Allow Changes to Previous Round Item** and **Allow Minor Changes to Previous Round Item** disabled (*POS Configurator / Employees / Employee Classes / Guest Checks / Guest Check Control*) were able to modify items without manager authorization after the check was service totalled and items were sent to the kitchen. This has been changed.

The following new option was added:

- ◆ **'Allow Zero Value Changes to Previous Round Item'**

A Zero value change occurs when a change is made to a previous round item that does not cause the price to change.

The existing two options now read:

- ◆ **'Allow Major Changes to Previous Round Item'** (this label was updated with the word "Major")

A major change occurs when a change is made to a previous round item that causes the price to decrease.

- ◆ **'Allow Zero Value Changes to Previous Round Item'**

A minor change occurs when a change is made to a previous round item that causes the price to increase.

These two existing options are disabled when the new option **Allow Zero Value Changes to Previous Round Item** is enabled.

What's Revised?

A revision is defined as a correction made to any existing form, feature, or function currently resident in the RES Version 5.2 software. To qualify as a revision, the change must satisfy the following criteria:

- ◆ The basic form, feature, or functionality must be part of the previous version of the software.
- ◆ The change must replace the current item or remove it from the application.

Revisions Summarized

The table below summarizes the revision included in this Maintenance Release.

Module	Revision	SCR/ CR ID	Page
CMBO	Many forms were missing labels of edit boxes when not using Windows Classic	40406/ N/A	64
Credit Card Batch	Reopened Closed Check was not included in CC Batch	40305/ 34672	64
	Settlement would fail with zero dollar auths	40304/ 34276	64
DBS RPC Server	POS Operations failed to load, displaying "Fatal Error: Invalid Workstation Revenue Center Programmed"	40459/ N/A	65
GSS - Accounts Receivable	Report Viewer could not filter Accounts Receivable Invoice Printing	40300/ 34859	65
GSS - POS Interface	Date format on 'Member Since' field has been changed	39682/ 32998	66
KDS Controller	SIPS caused incorrect KDS Course Alert times	39521/ 32554	66

Module	Revision	SCR/ CR ID	Page
Manager Procedures	Back button did not exit Manager Procedures in RES 5.x	40420/ 35067	66
MDS HTTP Service	MDS HTTP Service could stop unexpectedly	40369/ 34966	67
Menu Board	Menu Board Viewer showed mouse cursor	40165/ 34294	67
Ordering Module (OM)	OM: Pizza with three sections could not be edited	40285/ 34769	67
POS Configurator	Available Workstation List was blank on WS4 / LX in RES	40364/ 34950	68
	Changed TS Designer Key Name to 'Pickup Pending Payment Check'	40430/ N/A	68

Module	Revision	SCR/ CR ID	Page
POS Operations	Attempt to take report in SAR mode on mTablet resulted in .TRN file error	40284/ N/A	68
	Check Detail area of Template "111 QSR Order Detail" displayed scroll bar with 1024x600 resolution	40279/ 34728	69
	Demo Sales did not post to correct demo date	40403/ 35043	69
	Future Order did not post Auto Service Charge	39791/ N/A	69
	Incorrect Cover Count showed when 'Use Condiment Placeholders' was enabled	40347/ 34333	69
	"No Style Programmed" error displayed after voiding Fixed Price Meal (in COM mode)	40338/ 34919	70
	Ordering Module entry via Transaction Services did not function properly	40421/ 35045	70
	Performance issue occurred when Transaction Services retrieved open check summary information	40297/ 34791	71
	POS Operations would shut down when the Protégé was unresponsive	40306/ 34296	71
	POS Operations stopped working with Protégé when check amount exceeded 1.000\$	40308/ 34194	71
	Protégé remained on "Waiting For Command" screen	40302/ 34291	72

Module	Revision	SCR/ CR ID	Page
POS Operations (continued)	Reference detail was not correctly cloned when multiplying quantities of Menu Items with condiments of Fixed Priced Meals in COM	40342/ N/A	72
	Unable to final tender transaction with Manually Enabled Automatic Discount	40380/ N/A	72
Printing	'Override Print Group' was ignored in COM	40345/ 34013	73
Reports	Apostrophe in report name caused error "Report Service Reported: Failed"	38117/ 29730/	73
	Authorizing employee name was missing from Daily RVC Discount Detail Report	40301/ 32078	73
	Daily Revenue Center Discounts Report took a long time to complete	40344/ 34673	74
	Unspecified script error occurred with IE 9 or higher	39137/ N/A	74
Setup	Database Service and Database Engine shortcuts removed	40463/ N/A	75
Sybase 16	Syntax changes were made for proper connection to database and external programs	40451/ N/A	75
TMS Service	Table Management System experienced slow response time	40349/ 34433	76
Transaction Services	Delayed Orders did not prompt for send time after servicing from POS Operations	40307/ 33905	76

Revisions
Detailed

CMBO

Many forms were missing labels of edit boxes when not using Windows Classic

SCR #: 40406

CR ID #: N/A

Previously, many forms did not display edit box labels or message text when the Windows Classic theme was not used. This problem occurred in Cash Management, Manager Procedures, and some EM Corporate forms. This has been corrected.

Credit Card Batch

Reopened Closed Check was not included in CC Batch

SCR #: 40305

CR ID #: 34672

After tendering a check to a Credit Card, if the site used the Reopen Closed Check function and POS Operations went down while the check was still open (i.e., rebooted or lost power), the check would not be included in the Credit Card Batch. This has been corrected.

Important *The Workstation must be restarted (powered back on). This is needed to reset the ownership status of this guest check. Then this check will be included in the Credit Card Batch.*

Settlement would fail with zero dollar auths

SCR #: 40304

CR ID #: 34276

Previously, records for Zero Dollar Authorizations that did not have an Auth Code would cause the Credit Card Batch Utility to close during settlement. This occurred with or without omitting the records from the batch. This has been corrected.

DBS RPC Server

POS Operations failed to load, displaying “Fatal Error: Invalid Workstation Revenue Center Programmed”

SCR #: 40459

CR ID #: N/A

Previously, when at least 512 revenue centers were configured in RES v4.x and 513 revenue centers were configured in RES v5.x, POS Operations failed to load and displayed the error message “Fatal Error: Invalid Workstation Revenue Center Programmed”. This has been corrected.

Known Limitation

The number of Revenue Centers that can be successfully loaded during database download is limited to the amount of memory available in each workstation type. The UWS4 has noticeably less memory available for database download, and an “Insufficient Memory” error may occur during startup of POS Operations.

GSS - Accounts Receivable

Report Viewer could not filter Accounts Receivable Invoice Printing

SCR #: 40300

CR ID #: 34859

Previously, after creating an Invoice (*Accounts Receivable / Invoice Generation*) or selecting an individual Invoice (*Accounts Receivable / Account Maintenance / Invoices*), Report Viewer displayed every invoice generated in the system instead of the newly generated Invoice or individually selected Invoice. This has been corrected.

GSS - POS Interface

Date format on 'Member Since' field has been changed

SCR #: 39682

CR ID #: 32998

The date format of the 'Member Since' field is now hardcoded to the US date format of MM/DD/YYYY. This is consistent with the other GSS date fields.

KDS Controller

SIPS caused incorrect KDS Course Alert times

SCR #: 39521

CR ID #: 32554

Previously, with Single Item Per Sub-order (SIPS) enabled, when an order contained menu items with different prep times from a single dining course, the KDS Course Alert failed to display on all menu item chits from the order when they reached the target done time together. This has been corrected.

Manager Procedures

Back button did not exit Manager Procedures in RES 5.x

SCR #: 40420

CR ID #: 35067

Previously, when launching manager procedures from Ops.exe and pressing the 'Back' button, manager procedures was not always exited. This has been corrected.

MDS HTTP Service

MDS HTTP Service could stop unexpectedly

SCR #: 40369

CR ID #: 34966

Previously, an unexpected termination of the MDS HTTP Service might occur during Cash Management operations. This has been corrected.

Menu Board

Menu Board Viewer showed mouse cursor

SCR #: 40165

CR ID #: 34294

Previously, the mouse cursor occasionally displayed before the Menu Board refreshed. The cursor also displayed when a mouse was connected to the device and a right-click was performed. This has been corrected. The Menu Board Viewer will not display a mouse cursor unless the registry is set to allow for this.

Ordering Module (OM)

OM: Pizza with three sections could not be edited

SCR #: 40285

CR ID #: 34769

Previously, when attempting to build a Pizza with three sections in POS Operations, the second and third pie sections were masked and/or distorted, preventing the user from selecting them. This has been corrected.

POS Configurator

Available Workstation List was blank on WS4 / LX in RES

SCR #: 40364

CR ID #: 34950

Previously, when running reconfigure CAL on a WS4 and WS4LX, the “Available Workstation List” did not display the workstations configured within the system. This has been corrected.

Changed TS Designer Key Name to ‘Pickup Pending Payment Check’

SCR #: 40430

CR ID #: N/A

In POS Configurator | Devices | TS Designer | Function: Check Access, the ‘Put Away’ function key has been changed to ‘Pickup Pending Payment Check’.

POS Operations

Attempt to take report in SAR mode on mTablet resulted in .TRN file error

SCR #: 40284

CR ID #: N/A

Previously, a user was unable to request a report in SAR mode on an mTablet. When prompted with “Enter Offline Reporting” and selecting Yes, the following error message appeared: “Error opening .TRN file.” After this, another error appeared: “Failure Loading and Initializing Standalone Reporting DLL”. This has been corrected.

***Check Detail area of Template “111 QSR Order Detail”
displayed scroll bar with 1024x600 resolution***

SCR #: 40279

CR ID #: 34728

Previously, the Check Detail area of Template “111 QSR Order Detail” (*POS Configurator | Devices | Touchscreens*) incorrectly displayed the scroll bar when the mTablet screen resolution was set to 1024x600 (*POS Configurator | Devices | UWS | Options | Display | POS Window Configuration*). This has been corrected.

Demo Sales did not post to correct demo date

SCR #: 40403

CR ID #: 35043

In RES 5.1 and higher, DEMO sales were posting to the wrong date ('2015-09-08' instead of '2025-09-08'). This has been corrected.

Future Order did not post Auto Service Charge

SCR #: 39791

CR ID #: N/A

Previously, Future Orders did not post the auto gratuity properly in all expected totalizer locations on the Daily SYS and RVC Sales Reports after tendering a Guest Check. This resulted in an 'Outstanding' balance between Check Begun and Checks Paid. This has been corrected.

***Incorrect Cover Count showed when ‘Use Condiment
Placeholders’ was enabled***

SCR #: 40347

CR ID #: 34333

Previously, when the option ‘**Use Condiment Placeholders**’ was enabled (*POS Configurator | Revenue Center | RVC Transactions | General*), and ‘**Add to cover count**’ was also enabled (*POS Configurator | Sales | Menu Item Classes | Price/Totals*) the cover count displayed incorrectly in POS Operations, on the order device output, and the journal file. This has been corrected.

“No Style Programmed” error displayed after voiding Fixed Price Meal (in COM mode)

SCR #: 40338

CR ID #: 34919

Previously, when a Fixed Price Meal (FPM) with Course Selections was rung on the same seat as a Menu Item with required condiments and in that same round the FPM was voided, the required condiment was also removed from the additional menu item and POS Operations displayed the error “No Style Programmed” (in COM mode only). This has been corrected.

Ordering Module entry via Transaction Services did not function properly

SCR #: 40421

CR ID #: 35045

Previously, items added to the Ordering Module via Transaction Services could not be picked up at the workstation. This was due to a problem with the handling of reference entries with extra spaces at the end and could cause an API exception. This has been corrected.



Note: The Ordering Module is not available with a Workstation 4 in RES v5.x.

Performance issue occurred when Transaction Services retrieved open check summary information

SCR #: 40297

CR ID #: 34791

Previously, the response time of the “getOpenChecks” Transaction Services call increased with the number of open checks in v5.x. The code was picking up each check and calculating the Discount Engine discounts to produce the amount due. The Pending Discount Total value that is stored with the check has been altered so that it includes any rounding/truncation by revenue center and any pending automatic discounts. This improves the performance to get the open check totals, while the results are now the rounded/truncated total due.

POS Operations would shut down when the Protégé was unresponsive

SCR #: 40306

CR ID #: 34296

In previous versions, when the Protégé was in a bad state (i.e., frozen, locked up, displaying memory errors, OCPDisplay unresponsive), POS Operations would error and need to be shut down. This has been corrected.

POS Operations stopped working with Protégé when check amount exceeded 1.000\$

SCR #: 40308

CR ID #: 34194

Previously, with **Ops uses thousands separator** enabled (*POS Configurator / System / Restaurant / Currency*), ringing a check where the subtotal exceeded 1.000\$ on a POS Operations workstation with a Protégé configured would cause POS Operations to stop working. This has been corrected.

Protégé remained on “Waiting For Command” screen

SCR #: 40302

CR ID #: 34291

In previous versions, when connection with the Protégé was lost, POS Operations needed to revert back to ASCII mode; otherwise the Protégé would remain on the “Waiting for Command” screen. This has been corrected and POS Operations now switches to UNICODE mode to support special characters.

Reference detail was not correctly cloned when multiplying quantities of Menu Items with condiments of Fixed Priced Meals in COM

SCR #: 40342

CR ID #: N/A

Previously, when using Conversational Ordering Mode (COM) Quantity keys with Fixed Priced Meals (FPM) and multiplying quantities of Menu Items with condiments that contained Reference details, the Reference detail was not correctly “cloned”. This has been corrected. The multiple quantity feature creates an exact copy of the Course Item and all associated condiment/reference details.

Unable to final tender transaction with Manually Enabled Automatic Discount

SCR #: 40380

CR ID #: N/A

During testing, a new issue was found where the final tender did not work properly when a Manual Discount was applied. POS Operations displayed Change Due but the transaction was not finalized. The check remained open but displayed the Change Due (and the cash drawer would not open). This has been corrected.

Printing

'Override Print Group' was ignored in COM

SCR #: 40345

CR ID #: 34013

When Conversational Ordering Mode (COM) was enabled in a revenue center, the '**Override print group**' option was ignored in *POS Configurator / Sales / Menu Item Classes / Print option*. The '**Override print group**' option now works properly in COM if the Condiment Menu Item Class has this option enabled.

Reports

Apostrophe in report name caused error "Report Service Reported: Failed"

SCR #: 38117

CR ID #: 29730

Previously, if a report name contained an apostrophe, the Report Viewer returned the error "Report service reported: Failed." This has been corrected.

Authorizing employee name was missing from Daily RVC Discount Detail Report

SCR #: 40301

CR ID #: 32078

Previously, the Revenue Center Discount Detail Report did not include the Authorizing Employee for Manual Quantity Threshold (BOGO) discounts. This has been corrected.

Daily Revenue Center Discounts Report took a long time to complete

SCR #: 40344

CR ID #: 34673

Previously, when running the Daily Revenue Center Discount and/or Detail Report for a date range spanning five or more days, the report could take over 10 minutes to complete. This has been corrected.

Unspecified script error occurred with IE 9 or higher

SCR #: 39137

CR ID #: N/A

Previously, an unspecified script error could occur when running reports from Report Viewer, with Internet Explorer 9 or higher. This has been corrected.

Setup

Database Service and Database Engine shortcuts removed

SCR #: 40463

CR ID #: N/A

The following two shortcuts were removed from *Start / All Programs / Micros Applications / Utilities / Database / Sybase SQL Anywhere*:

- ◆ MICROS Database Engine
- ◆ MICROS Database Server

These shortcuts were rarely used and the decision was made to remove them from the MICROS Applications menu. If either of these functions are needed for any reason, go the SQL Anywhere 16\Bin32 folder and launch the executable file. For example, open Windows Explorer and go to: C:\Program Files (x86)\SQL Anywhere 16\BIN32 folder. Locate the desired executable (either 'dbeng16.exe' or 'dbsrv16.exe') and double-click on EXE to open (run).

Sybase 16

Syntax changes were made for proper connection to database and external programs

SCR #: 40451

CR ID #: N/A

The RES Gen2 Prerequisite Patch requires new syntax changes for connection to the database and the external program scripts. When calling DBISQL, you must now add "-nogui" to suppress the GUI and require user intervention during End-of-Night (EON) Autosequences. For example: "dbisql -q -nogui ScriptName.sql". This will ensure that additional instances of DBISQL.exe are not left running, which could cause the next day's EON to run improperly. Please refer to the [RES5_Gen2_Prereq_Patch_MD.pdf](#) for details on proper programming.

TMS Service

Table Management System experienced slow response time

SCR #: 40349

CR ID #: 34433

Previously, the Table Management System (TMS) was slow when multiple workstations were run and the WaitList and tables were fairly full. This has been corrected.

Transaction Services

Delayed Orders did not prompt for send time after servicing from POS Operations

SCR #: 40307

CR ID #: 33905

When sending a delayed order from Transaction Services and then picking up the check in POS Operations, the order was sent immediately without re-prompting the user to confirm/enter the fire time when the check was serviced. This has been corrected with this release. Now when a Delayed Order check that was opened via Transaction Services is picked up in POS Operations; it no longer fires the order to the kitchen as soon as the check is picked up. POS Operations now waits and the order is fired at the original auto fire time that was entered via Transaction Services.

What's Known

What's Known is defined as what needs to be completed for a successful version upgrade for certain modules.

What's Known Summarized

The table below summarizes What's Known in this version.

Module	Feature	SCR/ CR ID	Page
POS Operations	Ordering Module not supported on UWS4 clients in RES 5.x	40390/ N/A	77

What's Known Detailed

POS Operations

Ordering Module not supported on UWS4 clients in RES 5.x

SCR #: 40390

CR ID #: N/A

The Ordering Module is not supported on a UWS4 client in RES 5.x. Any attempt to use the Order Module in POS Operations will result in the following error:

“Ordering Module Not Available.”