

MICROS e7

Version 2.6

ReadMe First

General Information

About This Document

ReadMe First is an introduction to the new features, enhancements and revisions added in the Version 2.6 release of the MICROS e7 product.

Product information is divided into the following sections:

- ◆ MICROS e7 Installation
- ◆ What's New
- ◆ What's Enhanced
- ◆ What's Revised

Declarations

Warranties

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Introduction

MICROS e7 is a robust point-of-sale solution, with the high quality, reliable and extensive features that the marketplace has grown to expect from MICROS. All of this has been packaged specifically for the independent restaurateur.

MICROS e7 is a complete solution that utilizes the revolutionary MICROS Workstation POS terminal platform and MICROS' 25 plus years of industry leading software solutions.

The MICROS e7 user interface offers an intuitive, user-friendly touchscreen design that takes advantage of color, font, and an efficient screen layout to guide servers through the order entry process. The simplicity of the design reduces training time, improves speed of service to the customer, and lowers error rates for daily operations.

For more information about the MICROS e7 product, refer to the following resources:

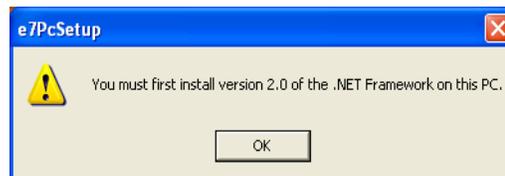
- ◆ **Marketing Overview** - This manual provides information regarding MICROS, the hospitality industry, features and benefits, sample reports, and a proposed return on investment for MICROS e7. This document is available for download from the MICROS website *e7 / Marketing / e7 Marketing Overview*.
- ◆ **Getting Started** - This manual provides site survey, installation, and configuration information to help you get your MICROS e7 site up and running. This document is available for download from the MICROS website *e7 / e7 [Release Version] / Documentation / e7 Getting Started*.
- ◆ **User's Manual** - This manual provides information on how to use the MICROS e7 System, including POS Operations, Manager Procedures, Credit Card Batch, and Reporting. This document is available for download on the MICROS website *e7 / e7 [Release Version] / Documentation / e7 User's Manual*.

MICROS e7 Installation

In order to successfully install and use the MICROS e7 product, the user must upgrade both the PC and workstations to the 2.0 Version of the Microsoft .NET Framework or the .NET Compact Framework respectively.

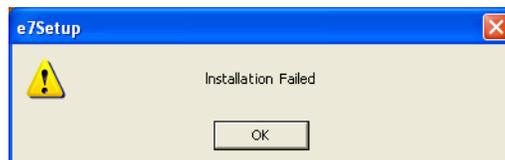
Attempting to upgrade the e7 to Version 2.6 without performing a framework upgrade, will cause the installation to fail and an error message to appear.

The following error message will appear on a PC:



If this occurs select [**Ok**] to clear the error message and follow the instructions outlined in the *MICROS e7 PC Installation* section.

The following error message will appear when attempting a stand-alone workstation installation:



If this occurs select [**Ok**] to clear the error message and follow the instructions outlined in the *Workstation Platform Image* section.

Downloading the MICROS e7 Product

The MICROS e7 product is available for download from the MICROS Web Site. There are several download choices available from the *Member Services / Product Support / MICROS Products* page:

- ◆ **Workstation Platform Image** - The platform image will depend on the type(s) of workstation(s) in use at the site. The following images are available:
 - ◆ **Workstation 4.** Download this file to extract the platform image for a Workstation 4. Use the *e7 / e7 [Release Version] / WS4 Platform Software (GR 2.3)* link to download the **e7_ws4_platform_15_1.exe** file.
 - ◆ **Workstation 4 LX.** Download this file to extract the platform image for a Workstation 4 LX. Use the *e7 / e7 [Release Version] / WS4 LX Platform Software (RC 2.3)* link to download the appropriate **e7_ws4lx_platform_RC_2_3.exe** file.

- ◆ **MICROS e7 Workstation Installation** - Download this file if you are installing only to a workstation.

Use the *e7 / e7 [Release Version] / e7 Workstation 4 Software* link to download the **e7_ws4_build_2.6.47.0.exe** file.

Use the *e7 / e7 [Release Version] / e7 Workstation 4 LX Software* link to download the **e7_ws4lx_build_2.6.47.0.exe** file.

- ◆ **MICROS e7 PC Prerequisites Installation** - Download this file if you are installing to a PC for the first time. This file contains any prerequisites necessary to run MICROS e7 on a PC, including the .NET framework. The extracted files can be used to burn a CD or to run the MICROS e7 PC Prerequisites program.

Use the *e7 / e7 [Release Version] / e7 PC Pre-requisite Software* link to download the **e7_pc_prereq_2_6.exe** file.

- ◆ **MICROS e7 PC Installation** - Download this file if you are installing to a PC. The extracted files can be used to burn a CD or to run the MICROS e7 PC Setup program.

Use the *e7 / e7 [Release Version] / e7 PC Software* link to download the **e7_pc_build_2.6.47.0.exe** file.

Workstation Platform Image

The platform image and the installation instructions will vary based on the workstation(s) being used at the site. This section is divided as follows, refer to the appropriate instructions for your workstation version.

- ◆ Workstation 4
- ◆ Workstation 4 LX

Workstation 4

Use these instructions to install the Platform Image on a Workstation 4. These steps may also be used to install another CE language platform, such as Chinese, Japanese, or Korean.

The MICROS e7 software will not be installed as part of these instructions. A PC or laptop is required to extract the zip (.exe) file and copy the extracted files to the appropriate transfer media, such as a USB thumb drive.

1. Copy the **e7_ws4_platform_15_1.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_ws4_platform_15_1.exe** to extract the MICROS e7 files.
3. Enter a directory location where the MICROS e7 files will be extracted (i.e., *C:\wsImage*).
4. Click on **Unzip**.
5. Click on **Close**.
6. Copy the directory from Step 3 (i.e., *C:\wsImage*) to a USB thumb drive.
7. Attach the USB thumb drive to the USB slot on the back of the Workstation 4.
8. Open Windows Explorer on the Workstation.

9. Locate the MICROS e7 software directory (i.e., *C:\wsImage*) on the USB thumb drive. The USB thumb drive should appear in Explorer as *\Hard Disk*. The following two sub-directories should be available:
 - ◆ *..\Standalone CAL Upgrade to 1.1.3.54*.
 - ◆ *..\Standalone Eng Platform 15.1*
10. From the *..\Standalone CAL Upgrade to 1.1.3.54* directory, run **Setup.exe** to upgrade the CAL client software on the workstation.

Note



Make sure that each workstation has at least 25 MB of free compact flash space before installing the software on the workstation.

11. From the *..\Standalone Eng Platform 15.1* directory, run **Setup.exe** to install the 15.1 platform. CAL installs the Windows CE image and reboots the workstation.

Workstation 4 LX

Use these instructions to install the Platform Image on a Workstation 4 LX. These steps may also be used to install another CE language platform, such as Chinese, Japanese, or Korean.

The MICROS e7 software will not be installed as part of these instructions. A PC or laptop is required to extract the zip (.exe) file and copy the extracted files to the appropriate transfer media, such as a USB thumb drive.

1. Copy the **e7_ws4lx_platform_RC_2_3.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_ws4lx_platform_RC_2_3.exe** to extract the MICROS e7 files.
3. Enter a directory location where the MICROS e7 files will be extracted (i.e., *C:\wsImage*).

4. Click on **Unzip**.
5. Click on **Close**.
6. Copy the directory from Step 3 (i.e., *C:\wsImage*) to a USB thumb drive.
7. Attach the USB thumb drive to the USB slot on the back of the Workstation 4 LX.
8. Open Windows Explorer on the Workstation.
9. Locate the MICROS e7 software directory (i.e., *C:\wsImage*) on the USB thumb drive. The USB thumb drive should appear in Explorer as *\Hard Disk*. The following three sub-directories should be available:
 - ◆ *..\Standalone BIOS Update*
 - ◆ *..\Standalone CAL Upgrade to 6.1.3.67*
 - ◆ *..\Standalone Eng Platform RC 2.3*
10. From the *..\Standalone BIOS Update* directory, run **Setup.exe** to upgrade BIOS on the workstation.

Note



Make sure that each workstation has at least 25 MB of free compact flash space before installing the software on the workstation.

11. From the *..\Standalone CAL Upgrade to 6.1.3.67* directory, run **Setup.exe** to upgrade the CAL client software on the workstation.
12. From the *..\Standalone Eng Platform 2.3* directory, run **Setup.exe** to install the 2.3 platform. CAL installs the Windows CE image and reboots the workstation.

MICROS e7 Workstation Installation

Use these instructions to install the MICROS e7 software on a Workstation that has the appropriate Windows CE operating system image already installed. A PC or laptop is required to extract the zip file and copy the extracted files to the appropriate transfer media, such as a USB thumb drive.

The zip file will vary depending on workstation version being used at the site. This section is divided as follows, refer to the appropriate instructions for your workstation version.

- ◆ Workstation 4
- ◆ Workstation 4 LX

Workstation 4

1. Copy the **e7_ws4_build_2.6.47.0.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_ws4_build_2.6.47.0.exe** to extract the MICROS e7 files.
3. Enter a directory location where the MICROS e7 files will be extracted. (i.e. *C:\e7Software*)
4. Click on **Unzip**.
5. Click on **Close**.
6. Copy the directory from Step 3 (i.e. *C:\e7Software*) to a USB thumb drive.
7. Attach the USB thumb drive to the USB slot on the back of the workstation.
8. Open Windows Explorer on the workstation.
9. Locate the MICROS e7 software directory (i.e. *C:\e7Software*) on the USB thumb drive. The USB thumb drive should appear in Explorer as *\Hard Disk*.

10. Run **Setup.exe**. CAL installs the MICROS e7 software and reboots the workstation.

Workstation 4 LX

1. Copy the appropriate **e7_ws4lx_build_2.6.47.0.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_ws4lx_build_2.6.47.0.exe** to extract the MICROS e7 files.
3. Enter a directory location where the MICROS e7 files will be extracted. (i.e. *C:\e7Software*)
4. Click on **Unzip**.
5. Click on **Close**.
6. Copy the directory from Step 3 (i.e. *C:\e7Software*) to a USB thumb drive.
7. Attach the USB thumb drive to the USB slot on the back of the workstation.
8. Open Windows Explorer on the workstation.
9. Locate the MICROS e7 software directory (i.e. *C:\e7Software*) on the USB thumb drive. The USB thumb drive should appear in Explorer as *\Hard Disk*.
10. Run **Setup.exe**. CAL installs the MICROS e7 software and reboots the workstation.

MICROS e7 PC Installation

With MICROS e7, a PC can be setup to run the MICROS e7 ReportsPlus, Configurator, and Credit Cards modules. To use these applications on a PC, the .NET framework (Version 2.0 or higher) must be installed using the e7 PC Prerequisites installation and MICROS e7 software must be installed using the MICROS e7 PC Setup installation.

Optionally, the PC may be configured to be a CAL server for the MICROS e7 site, so that it can be used to update the workstations with the MICROS e7 workstation software.

Note



The .NET framework (Version 2.0 or higher) must be installed on the PC prior to running the MICROS e7 PC setup program. Use the e7_pc_prereq_2_6.exe file that can be downloaded from the MICROS Web Site to install the .NET framework.

Use these instructions to extract the PC Prerequisites zip (.exe) file and install the extracted files to a PC.

Extracting the MICROS e7 PC Prerequisite Files

1. Copy the **e7_pc_prereq_2.6.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_pc_prereq_2.6.exe** to extract the files.
3. Enter a directory location where the MICROS e7 files will be extracted. (i.e. *C:\e7Prereq*)
4. Click on **Unzip**.
5. Click on **Close**.

Installing the MICROS e7 Prerequisite Files to a PC

1. Open Windows Explorer on the PC.
2. Locate the MICROS e7 prerequisites directory (i.e. *C:\e7Prereq*) that you extracted in the previous steps.
3. Run **e7PreReqs.exe**.
4. The necessary files are installed. This may take a few minutes.

Extracting the MICROS e7 PC Setup Files

Use these instructions to extract the PC Setup zip (.exe) file and install the extracted files to a PC.

1. Copy the **e7_pc_build_2.6.47.0.exe** file from the MICROS Web Site to a temporary directory on the PC.
2. Double-click on **e7_pc_build_2.6.47.0.exe** to extract the MICROS e7 files.
3. Enter a directory location where the MICROS e7 files will be extracted. (i.e. *C:\e7CD*)
4. Click on **Unzip**.

5. Click on **Close**.

Note



The MICROS e7 installation can be started from the directory where you extracted files in these previous steps (i.e. C:\e7CD) using the instructions below.

or

These extracted MICROS e7 files can be burned onto a CD. Then, e7PcSetup.exe can be executed to start the product installation.

Installing the MICROS e7 PC Setup Files to a PC

Note



Once the CAL software is installed on the PC, the system will automatically upgrade each workstation. Make sure that each workstation has at least 25 MB of free compact flash space before installing the software on the PC.

1. Open Windows Explorer on the PC.
2. Locate the MICROS e7 software directory (i.e., C:\e7CD) that you extracted in the previous steps.
3. Run **e7PCSetup.exe**.
4. Click [**Next**] from the MICROS e7 Setup Welcome screen.
5. Review the End User License Agreement, click **I Accept the Agreement**, and click [**Next**].
6. Enter the location where MICROS e7 will be installed. The default destination location is the same as the previously installed version of MICROS e7 or c:\Program Files\MICROS\e7 for a new installation. Use the Browse button to select a different destination location.

7. Select the additional tasks to be performed by the MICROS e7 installation and click [**Next**].

The following actions will automatically be performed:

- ◆ **Create shortcut on the desktop**—Creates a desktop shortcut for the **e7.exe** file in the \bin folder. The name of the desktop shortcut is MICROS e7 and the default folder is the \bin folder.
 - ◆ **Create shortcut in the Start Menu**—Creates a selection for MICROS e7 in Start Menu | Programs on the PC.
 - ◆ **Create shortcut in the Startup folder**—Creates a shortcut in the PC's startup folder for the e7.exe program.
 - ◆ **Install MICROS CAL Service**—Installs the MICROS CAL Service on the PC. If the CAL server is already installed, this choice is greyed out.
8. Click [**Finish**] to begin installing MICROS e7.

Note



After the CAL server installation, the workstation operating system images will be automatically updated.

If told to reboot the PC, please wait until all workstations have finished their CAL upgrade to MICROS e7 Version 2.6.

MICROS e7 Version 2.6

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 version.

Module	Feature	Page
Credit Cards	CaPMS Credit Card Driver	15
Database	The MICROS e7 Export Interface	35
Operations	Workstation 4 LX Supported	46

New Features Detailed

Credit Cards

CaPMS Credit Card Driver

With this release, MICROS e7 introduces the CaPMS Credit Card Driver. The purpose of this driver is to allow the MICROS e7 system to authorize credit card transactions and to perform Electronic Draft Capture (EDC) with a Property Management System (PMS).

Note



The term PMS refers to the systems used to operate hotels and resorts, including front desk systems and payment processing applications.

Previously, if a site was using both PMS and MICROS e7 applications, then the credit authorization and the Electronic Draft Capture processes had to be performed separately. In this situation, the site was required to install separate credit card drivers, one for the MICROS e7 system, and one for the PMS.

With the introduction of the CaPMS driver, the user can centralize credit card processing for the PMS and MICROS e7 systems, thereby making the credit card authorization and settlement process simpler and more efficient.

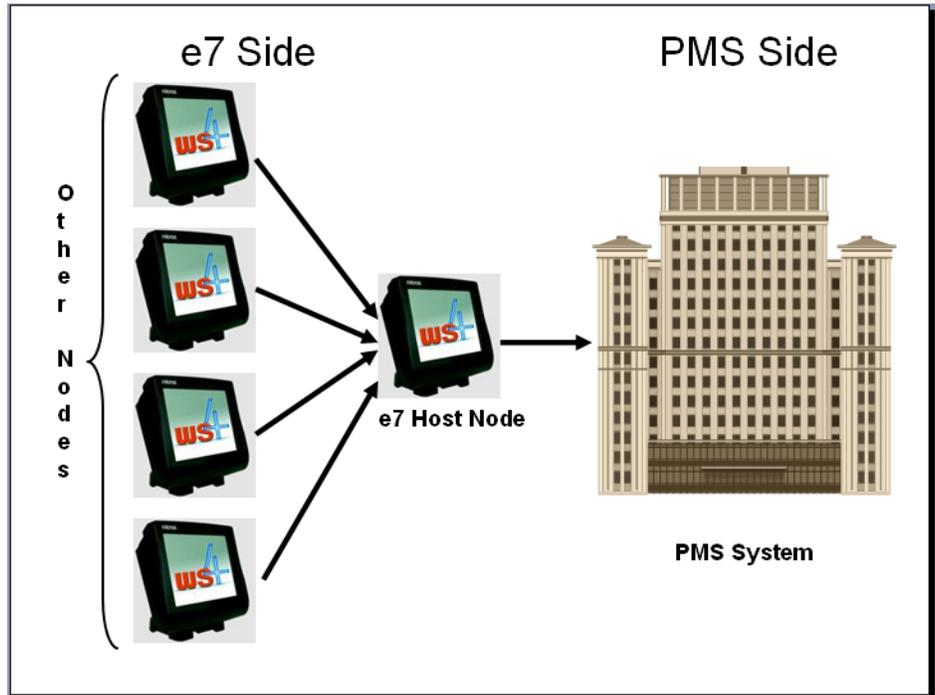
The CaPMS driver is included in the MICROS e7 installation and can be added as a new credit card driver. Additional configuration is required to implement this feature. For more information see the *Enabling CaPMS* section beginning on page 25.

How it Works

Currently, the MICROS e7 application uses the PMS Interface to transmit data to the PMS. In the past communication was limited to inquiries regarding customer accounts and room charge posting information. The CaPMS driver utilizes this existing infrastructure to relay credit card transaction information to the PMS.

The PMS interface requires that prior to installation, the user identifies a host node to transmit information between the MICROS e7 POS and the PMS. CaPMS can only be installed on a single PC or workstation in the network and does not support the use of a backup mode.

Once the host node is established, the other MICROS e7 nodes will route credit authorizations to the MICROS e7 host node. The node can be a workstation or a PC. In turn, the MICROS e7 host node will route all data to the host PMS node.



The steps used to relay credit card data to the appropriate source will vary based on whether the CaPMS driver is transmitting an authorization or a settlement request to the PMS.

Pertinent information regarding the CaPMS driver (e.g., error logging) is recorded in the `\MICROS\e7\Etc\TIFLog_TIFCaPMS.txt` file.

Credit Card Authorizations

When the MICROS e7 host receives a request for an authorization, it will forward the request on to the PMS system.

The PMS will then forward the request onto the credit card processor. All authorizations generated from the PMS and the MICROS e7 application will be routed through the PMS.

Once the authorization is processed, the PMS system will return a response, either accepted or denied, to the MICROS e7's host node. That response will then be forwarded to the workstation that generated the authorization request.

Depending on the response received, the workstation will behave as follows:

- ◆ **Authorization Accepted.** The credit card voucher is printed and the credit authorization details are added to the guest check.
- ◆ **Authorization Declined or Referred.** The credit card voucher may or may not print based on the **No voucher on decline** setting on the *Configurator / CA/EDC* form. A message indicating the status of the authorization will display on the workstation. If a print class is configured for credit card vouchers then this message will also print on the voucher.

Authorizations Awaiting Approval

After the authorization is transmitted to the PMS system, the transaction remains in an intermediate state while the MICROS e7 node awaits a response. This response must occur before the CaPMS driver's timeout limit is reached (*CA/EDC / System / Timeout*).

If multiple CaPMS requests are transmitted at the same time from different workstations, they will be sent to the CaPMS host one at a time.

Credit Card Batching and Settlement

Prior to settlement, the MICROS e7 system will maintain the complete payment records regarding the transaction including tip, authorization codes, and authorization amounts. At the time of settlement, this information will be combined into a newly created batch. At the time of settlement, the MICROS e7 system will transfer all payment records in the defined credit card batch to the PMS.

As with other credit card drivers, settlement is performed using either the Credit Card Batch Utility or the Create Batch/ Settle Batch autosequences.

If a failure occurs at any point during the settlement process, an error message will be returned to the MICROS e7 system with information regarding the nature of the problem.

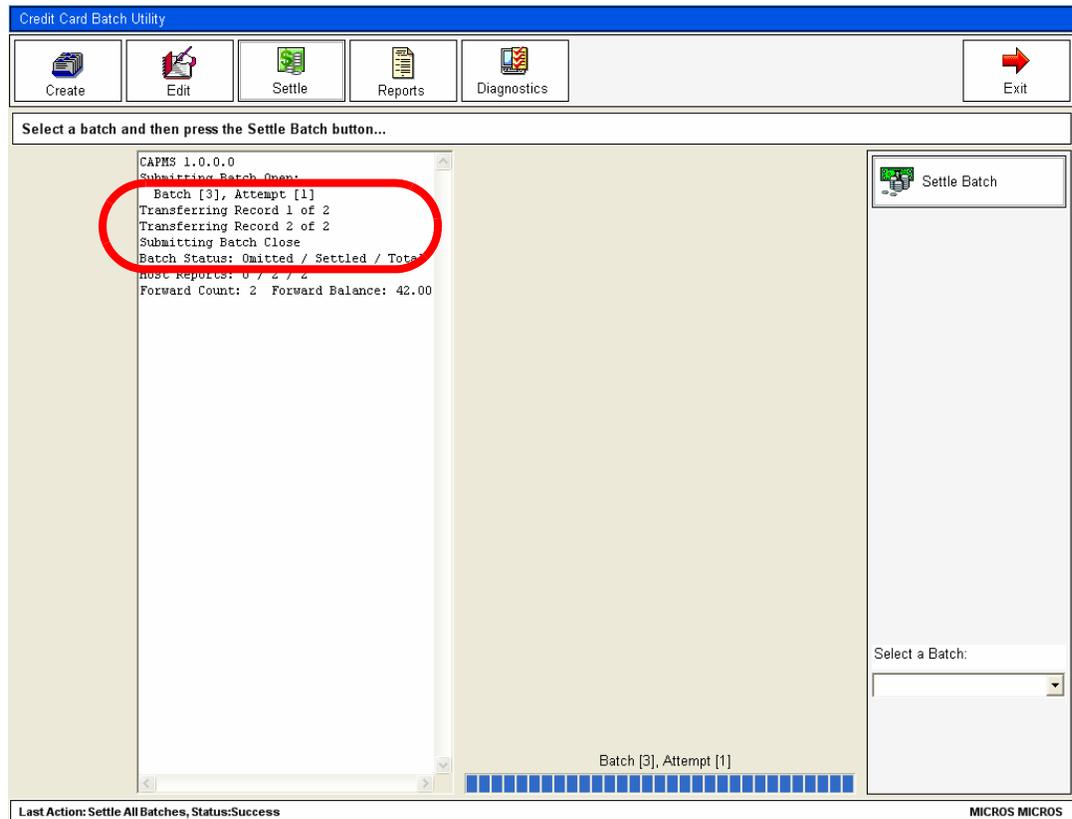
Batch settlement will occur in the order listed below. As the batch progresses through these steps, its status is listed in the results window of the Credit Card Batch Utility.

1. Before beginning a new batch, the CaPMS driver will perform a query to verify that no other credit card batches are open on either system. If no batches are open, the driver will open a new batch.

The driver will return one of the following responses to the MICROS e7 system indicating the batch status:

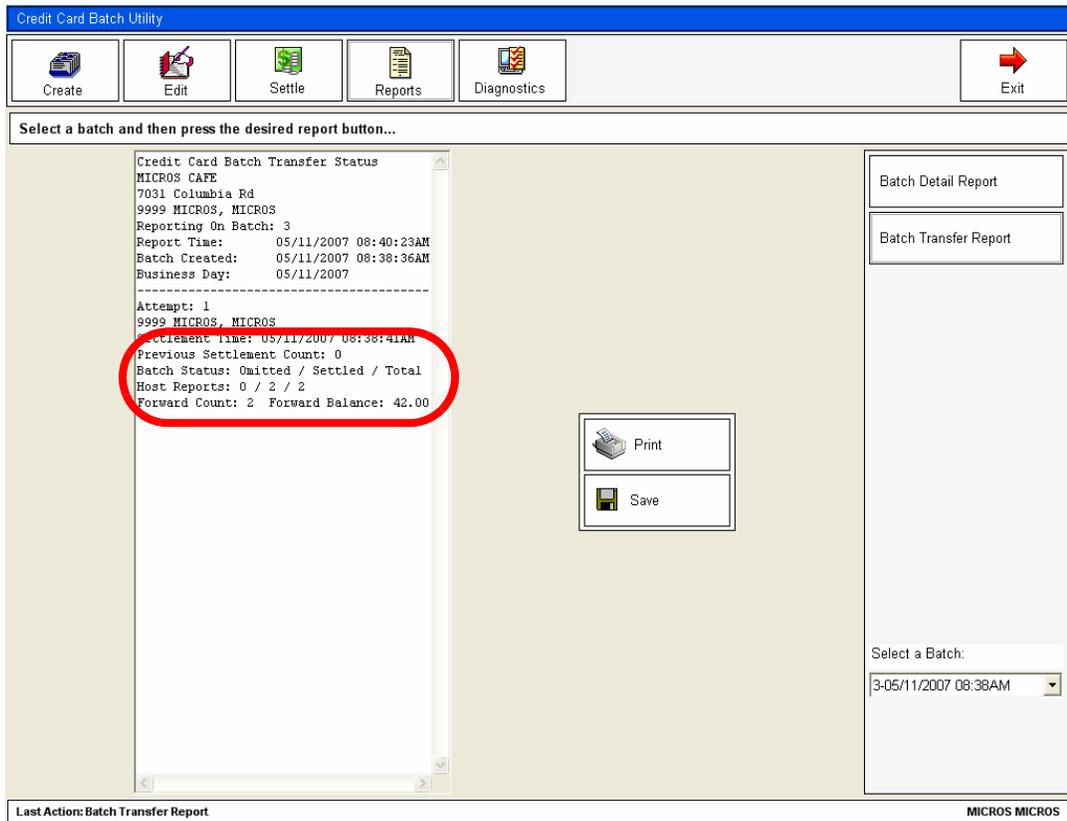
- ◆ **Batch Opened.** This indicates that a new batch was successfully opened. If this occurs the driver will progress to step 2.
- ◆ **Batch Already Open.** A batch is already open on the system. The message will list the batch number and value of the opened batch. If a batch is already opened, the new transaction records will post to this batch rather than opening a new one.
- ◆ **Failure.** A new batch could not be opened.

2. All payment records are transferred from the MICROS e7 host node to the PMS. During settlement a batch transfer status will be returned for each transferred record, indicating if the transfer was successful or not (e.g., Transfer Accepted, Transfer Failure).



In the event of failure, an error message will be returned to MICROS e7 host node and recorded in the Credit Card Batch status window as well as in the **TIFLog_CaPMS.txt** file.

3. After all payment records are successfully transferred, the batch is closed. The Credit Card Batch Utility will list the number of transaction records and the total settlement amount for the batch. The settlement amount will include the final payment amount (including tips) for all of the MICROS e7 transactions.



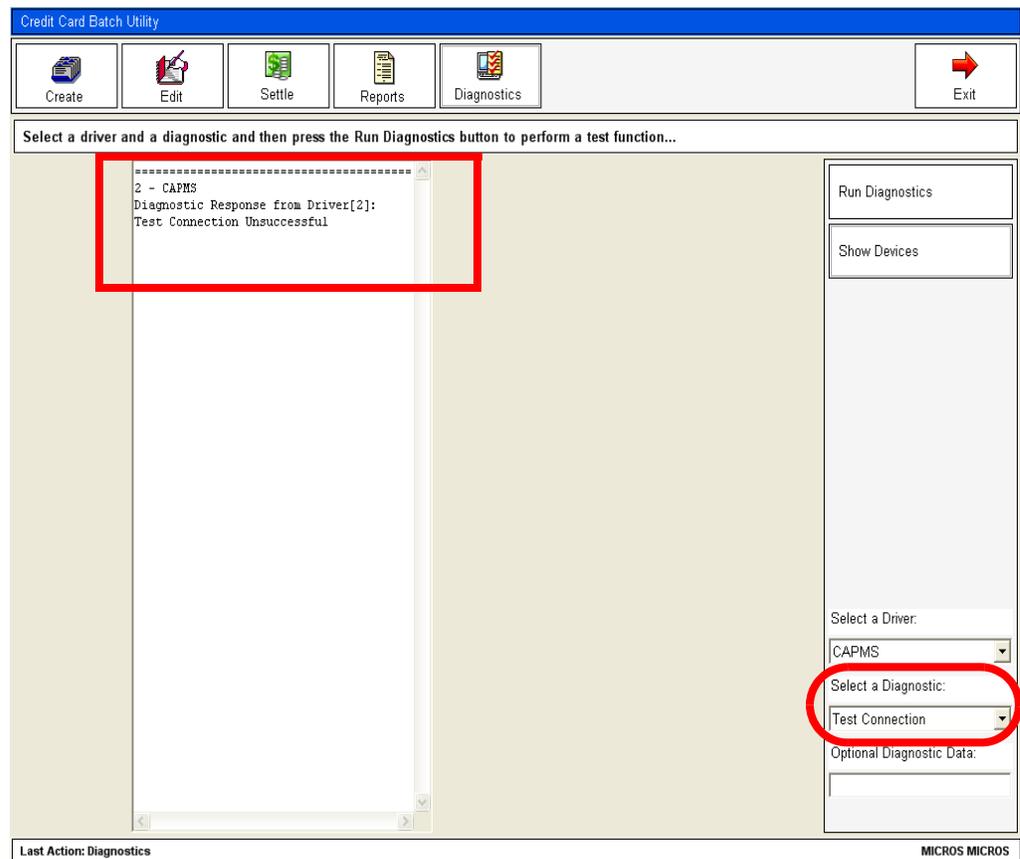
The CaPMS driver permits the user to perform authorizations while credit card batch settlement is in progress.

Troubleshooting

As with other credit card drivers, the Credit Card Batch Utility can be used to perform the following diagnostic functions to assist with troubleshooting issues with the CaPMS driver.

The following functions are available by selecting the **[Diagnostic]** button and clicking on the **Select a Diagnostic** drop down box. Once a selection is made click on the **[Run Diagnostic]** button to perform that function.

- ◆ **Test Connection.** Determines whether the MICROS e7 system is successfully connected to the PMS host using the configured connection parameters.



- ◆ **Get Version.** Displays the build version number of the driver in the results window.
- ◆ **Get Diagnostic Counters.** Displays the current value for each diagnostic counter. The counters are used by the CaPMS driver for diagnostic purposes. This feature is mostly used for MICROS Support Staff to obtain additional details regarding a potential issue.
- ◆ **Clear Diagnostic Counters.** Clears the current values for all of the diagnostic counters.

Communication Methods

The following communication methods can be used to connect the MICROS e7 system to the PMS:

- ◆ **Serial connection** – If used, the host node must be a PC.
- ◆ **TCP/IP connection** – If used, the host node can be a PC or a workstation.

Enabling CaPMS

Configuration for the CaPMS credit card driver is divided into the following sections:

- ◆ Adding the Driver
- ◆ Configuring the Restaurant Form
- ◆ Configuring the Tender Form

Each section lists only the fields required to configure the CaPMS feature. Configure additional options as necessary.

Adding the Driver

1. Go to the *CA/EDC / System* tab and select the **Green Plus Sign** to add a new credit card driver.

The screenshot shows the MICROS e7 software interface. On the left, a table lists drivers:

Number	Name
1	DEMO
2	CaPMS

The main area shows the configuration for the selected driver (CaPMS). The 'Add Record' button is highlighted in green. The configuration form includes the following fields:

- Number: 2
- Name: CaPMS
- Driver code: CAPMS
- Node: MY PC

Below these fields is a table of settings:

Name	Setting
Show Host Messages	0
Long UWS #	0
DITB	0
Compatibility Mode	0
Exclude Issue Number and Date	0
No Voucher On Decline	0
Communications Type	0
Timeout	0
Com Port	0
Baud Rate	300
Parity	
Data Bits	7
Stop Bits	2
TCP Server Name	
TCP Port Number	
Interface Name	

2. Configure the following fields:

- ◆ **Number** –Enter an integer associated with this credit card driver.
- ◆ **Name** – Enter a unique descriptor for this driver.
- ◆ **Driver Code** – Use the drop-down box to select the CaPMS driver. All drivers that are supported by the system will be listed. Selecting this option will populate the table below.
- ◆ **Node** – Use the drop-down box to select the PC or workstation that will be hosting the CaPMS driver. This should match the node used to batch credit card transactions on the *Restaurant / Credit Cards* tab. Likewise, changing the node on this form must also be changed on the *Restaurant / Credit Cards* tab.

The CaPMS driver will only be loaded on the selected node. If a serial connection is used, the node must be a PC. If TCP/IP is used then the node can be either a PC or a workstation.

- ◆ **Show host messages** – Enter a value to indicate whether the credit card processor reporting function will be active or not.
 - Enter a value of 0 to deactivate the credit card processor reporting function (default value).
 - Enter 1 to report any decline, referral, and error messages back to MICROS e7 Operations.

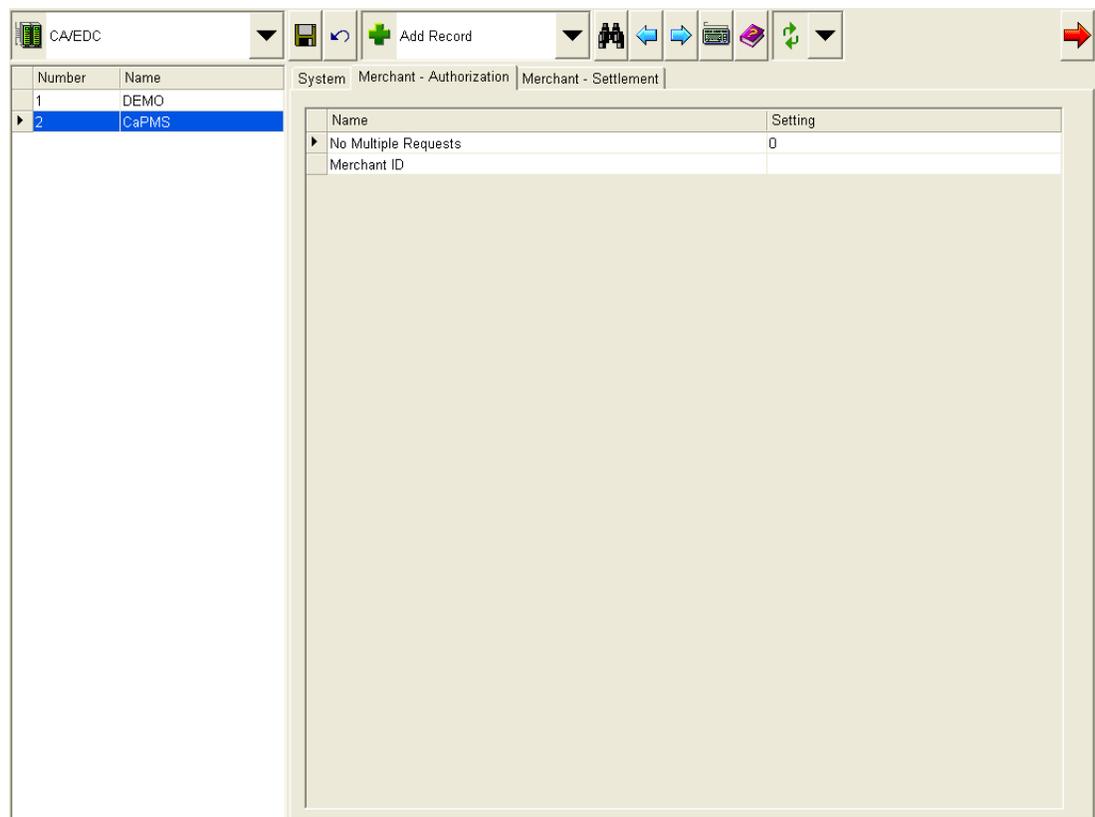
This option will only dictate the behavior of the credit card processor, not the MICROS e7 host node. CaPMS will always generate its own message to Operations.

- ◆ **Long UWS #** – Determines how many characters are sent to the PMS host computer for the workstation number in the ID field of the message header.
 - Enter 0 to truncate the UWS messages to include only the last two digits (default value).
 - Enter 1 to configure a 9-digit message. UWS messages less than 9 numbers will be preceded by zeros.

- ◆ **DITB** – Determines the format for transmitting authorization messages to the PMS.
 - Enter 0 to send the credit authorization in the standard format (default value).
 - Enter 1 to send the credit authorization messages with additional fields including the guest check number, payment date and time. Select 1 only after consulting with MICROS support personnel.
- ◆ **Compatibility Mode** – Determines the format used when transmitting credit authorizations and batch requests to the PMS system.
 - Enter 0 to transmit CA/EDC requests in MICROS e7 mode only (default value).
 - Enter 1 to transmit CA/EDC requests that are compatible with the 9700 Property Management System format. this option must be enabled when interfacing with the Southern Datacom (SDC) Server.
- ◆ **Exclude Issue Number and Date** – Determines when a manually entered credit card issue number and issue date will be included with the credit authorization or settlement request.
 - Enter 0 to include the issue number and date (default value).
 - Enter 1 to exclude the issue number and date.
- ◆ **No voucher on decline** – Determines whether the credit card voucher will be printed after the request for authorization has been declined or not.
 - Enter 0 if the credit card voucher should be printed (default value).
 - Enter 1 to suppress printing the voucher.

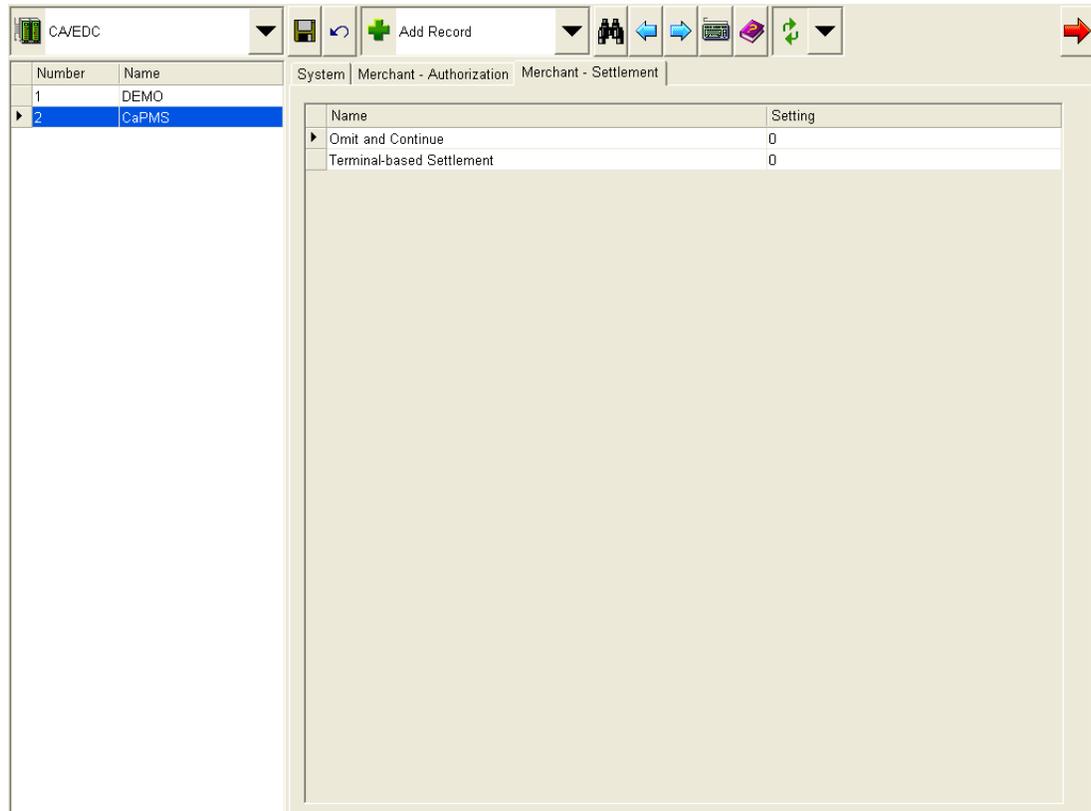
- ◆ **Communications Type** – Use this area to indicate the method of communication that will be used at the site.
 - Enter 0 for Serial (default value).
 - Enter 1 for TCP/IP.
- ◆ **Timeout** – Enter a value in seconds between 20 and 120 to determine how long the MICROS e7 system will wait on a reply from the PMS computer before reporting a timeout.
- ◆ **Com Port** – Enter a value between 1 and 4 to identify the communication port that will be used for transmission. This field is ignored if the TCP/IP **Communications Type** is selected.
- ◆ **Baud Rate** – Enter the baud rate of the Com Port transmission (e.g., 300, 1200, 2400, 4800, 9600, 19200, 38400). This field is ignored if the TCP/IP **Communications Type** is selected. This value must match that of the host PMS computer.
- ◆ **Parity** – Enter the parity setting for the Com Port transmission. This field is ignored if the TCP/IP **Communications Type** is selected. This value must match that of the host PMS computer.
 - N = None
 - O = Odd
 - E = Even
- ◆ **Data Bits** – Enter the number of data bits (7 or 8) to use for transmission on the PC. This field is ignored if the TCP/IP **Communications Type** is selected. This value must match that of the host PMS computer.
- ◆ **Stop Bits** – Enter the number of stop bits (1 or 2) to use for transmission on the PC. This field is ignored if the TCP/IP **Communications Type** is selected. This value must match that of the host PMS computer.

- ◆ **TCP Server Name** – Enter the name of the PMS host computer. This field will be ignored if the Serial **Communications Type** is selected. This value must match that of the host PMS computer.
 - ◆ **TCP Port Number** – Enter the port number for the PMS host computer. This field will be ignored if the Serial **Communications Type** is selected. This value must match that of the host PMS computer.
 - ◆ **Interface Name** – Enter the interface name of the CaPMS driver. This can be up to 16 characters in length. This name will be used in the header for each message sent to the PMS host computer.
3. Go to the *Merchant - Authorization* tab and configure the following fields:



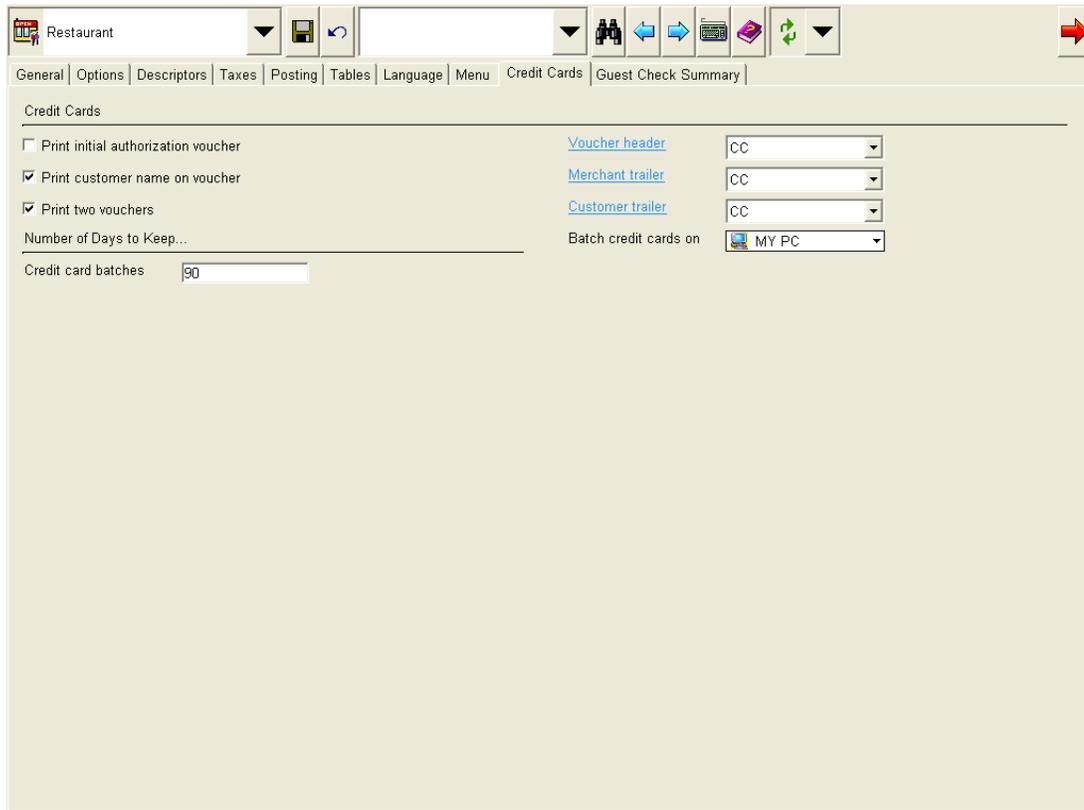
- ◆ **No multiple requests** – Use this option to indicate if the PMS system can handle simultaneous processing of more than one authorization request. These requests will be sent from different workstations, as each workstation can only send a single authorization request at a time.
 - Enter 0 to send multiple requests simultaneously.
 - Enter 1 if the CaPMS should wait for a response from a message before attempting to send a second one. Only a single message will be processed at a time.
- ◆ **Merchant ID** – Enter a descriptor to identify the business. This is assigned by the credit card processor. Enter up to 16 characters. The name will be transmitted to the credit card processor with each authorization and settlement.

4. Go to the *Merchant - Settlement* tab and configure the following fields:

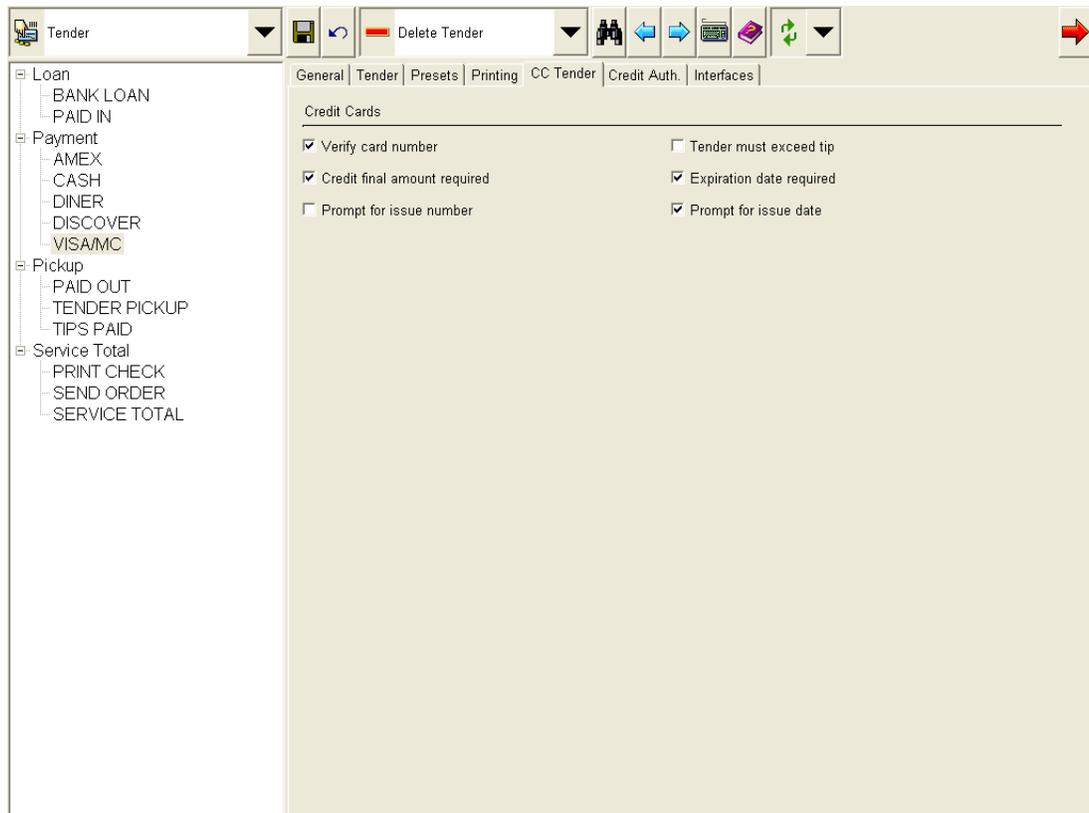


- ◆ **Omit and Continue** – Use this field to determine the driver's behavior when the system encounters a non-reconciled check.
 - Enter 0 to stop settlement.
 - Enter 1 to allow PMS to decide what to do when the system encounters a non-reconciled check. This will include omitting the issue and continuing the settlement process. This option should only be set to 1 if host-based settlement is configured.

- ◆ **Terminal-based Settlement** – Determines when records are marked as settled.
 - Enter 0 to mark a record as settled as soon as it is processed via the Credit Card Batch Utility on the MICROS e7 host node. This process is referred to as terminal-based settlement.
 - Enter 1 to indicate that no record should be marked as settled until the entire group has been processed and the Batch Close command has been successfully received from the PMS system. This process is referred to as host-base settlement.
5. Go to the *Restaurant / Credit Cards* tab. Verify that the CaPMS host node is selected in the **Batch credit cards on** drop-down box.

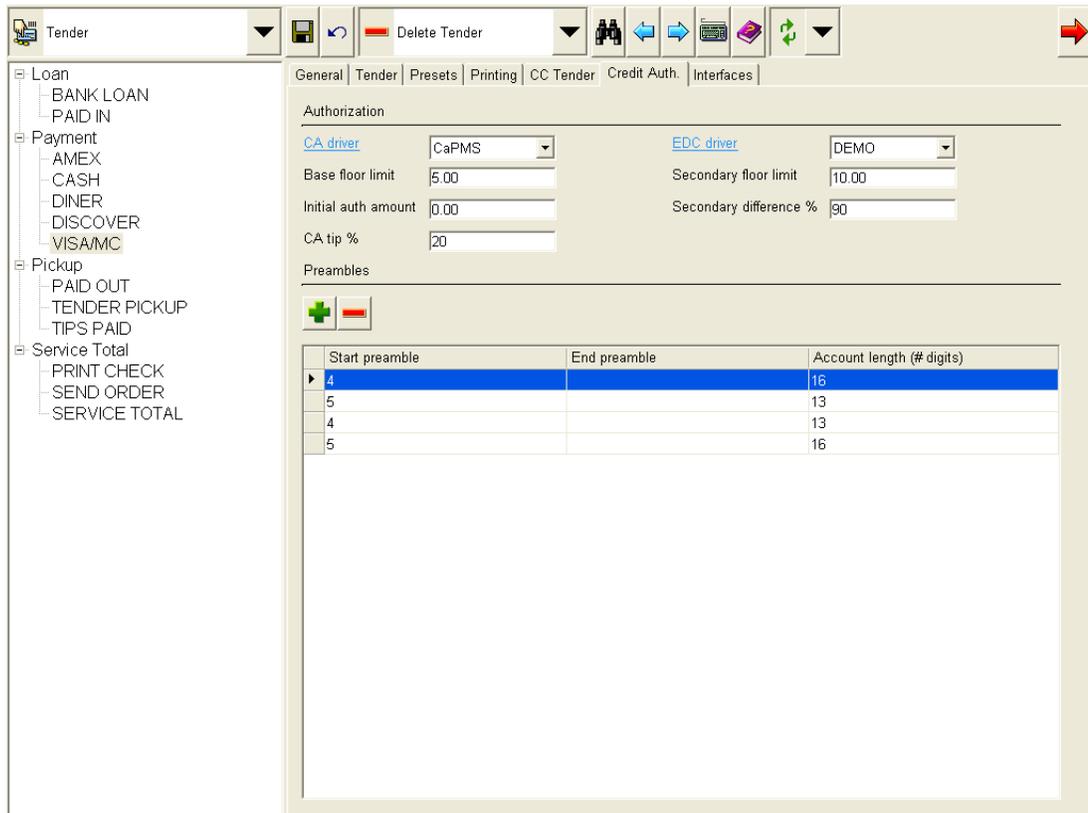


- Go to the *Tender* form and highlight a credit card tender (e.g., Visa). Configure the following options on the *CC Tender* tab:



- ◆ **Prompt for issue number** – Select this option to prompt the employee for the credit card issue number when card information is entered manually. Clear this option to suppress this prompt.
- ◆ **Prompt for issue date** – Select this option to prompt the employee to enter the credit card issue date when card information is entered manually. Clear this option to suppress this prompt.
- ◆ Repeat this step for all credit card tenders.

7. Go to the *Credit Auth* tab and configure the following fields for all applicable tenders. Every tender that requires authorization and settlement should be linked to the CaPMS driver.



- ◆ **CA driver** – Select the credit authorization driver to use for this tender. Select CaPMS from the drop-down box.
 - ◆ **EDC driver** – Select the settlement driver that should be used for this tender. Select CaPMS from the drop-down box.
8. Save all work. The CaPMS driver should be operational when POS Operations are re-started.

To test the connection to the PMS host, go to the *Credit Card Batch Utility / Diagnostics / Select a Diagnostic / Test Connection* and select the **[Run Diagnostics]** button.

Database

The MICROS e7 Export Interface

With this release, MICROS e7 introduces functionality that allows the store to automatically create and export a package of raw data as part of a scheduled autosequence. The MICROS e7 Export Interface will collect data for a the current business day and export it to a configurable location.

The package will contain all of the data files listed below. A complete list of the exported text files can be found in the *MICROS e7 Export Interface Engineering Specification Documentation, MD0007-021*.

- ◆ **Entire Database.** Export all of the tables from the database.
- ◆ **Sales totals.** This includes all sales totals and reports generated via the MICROS e7 system.
- ◆ **Transactional data.** Exports all data relating to the transactions performed for the business day.
- ◆ **Reports.** All of the 22 MICROS e7 reports that can be exported are written to disk files in 40-column format. This will help with developing solutions based on the sales totals and transactional data.

Raw data is compiled in the form of text (.txt) files, that are assembled and compressed into .zip file format. The .zip file package is then transmitted to either an external source, or maintained locally at the store.

Once the data is sent, it can then be imported into the application of the user's choice. Additional development work will be required by the user in order to transfer data into a third party application. See the *Importing Data Into Third Party Software* section on page 46 for more information.

The Export interface provides all the data necessary for building or interfacing to sales reporting and information management tools. The following is a list of some of the valuable ways that an export package can be used:

- ◆ Stores can export data to a central location at the close of business automatically, as part of their nightly autosequence.
- ◆ The user can monitor the store's transactional and sales data remotely. Additional development is required by the user in order to transfer data to a third party application.
- ◆ The compressed .zip format can be accessed easily for future reference.

How it Works

Once configured, the Export interface will assemble a package of data and export it as part of an autosequence (e.g., the End of Night Autosequence). When the **Update Bus Date** autosequence action is executed, the MICROS e7 system will send the information to the designated location.

At this time, the following transfer methods are available:

- ◆ **Files transferred locally.** This transfer method allows the user to maintain a copy of the transferred files on their local machine. This method works best when the transfer node is a PC.
- ◆ **File Transfer Protocol (FTP).** With this transfer method, files are exported to a centrally accessible location (e.g., a mapped network drive) where they can be accessed by a third party.

When a package is transferred, a copy of the package is also sent to the following directory on the MICROS e7 host node:

\MICROS\e7\TIFExports\TIFExport(InterfaceObjNumber)**

If multiple export interfaces have been created then each will be numbered based on the interface record's object number (e.g., *\TIFExport\1* and *\TIFExport\2*).

The Export interface ships along with the MICROS e7 application Version 2.6 and higher. Additional configuration is required to activate this feature.

Architecture

Prior to implementing the Export interface, the user must decide which node will function as the host node for the export interface. This will be the node where all of the information is gathered from the other nodes, packaged, and exported to the desired location. The host node can be either a PC or a workstation.

If dial-up is used at the site, the host node must have an attached dial-up modem for the Export interface to be successful.

The host node must be connected to the communication method used to export data. For example, if data will be exported via a mapped network drive, then the node must be connected to that drive.

During operations, the Export interface writes messages to the **TIFLog_TIFExport.log** file on the MICROS e7 host node.

Once the raw data is exported, it is the responsibility of the third party to import the package to the appropriate application so that it can be interpreted.

Enabling the MICROS e7 Export Interface

Although the Export interface feature is installed with the MICROS e7 Version 2.6 software, additional configuration is required. This section outlines the steps necessary to configure this feature. Additional options may be configured as desired.

Follow these steps to configure this feature:

1. Go to the *Configurator / Interfaces* form and select the Green Plus Arrow to add a new interface.

Note



If data is to be exported to more than one location, then additional interface records should be created. For example, if a site would like to export one set of data to their corporate headquarters and export another copy to be maintained internally, 2 Export interfaces should be added.

Repeat steps 1-5 for each additional interface.

2. Configure the following options. The Export configuration table will appear after the **Interface Code** field is configured.

Number	Name
4	TIFExport

General | Transport | Reserved

Number: 4 | Name: TIFExport
Interface Code: Export | Node: MY PC
Backup Interface: | Log Transactions

Name	Setting
Site ID	e7_001
Number of days to archive	7

- ◆ **Number.** Select a unique number to be associated with this interface record.
- ◆ **Name.** Assign this record a unique identifier that is easily recognizable (e.g., Export Interface).
- ◆ **Interface Code.** Use the drop-down box to select the **Export** interface type.
- ◆ **Node.** Use the drop-down box to select the MICROS e7 host node identified at the time of installation. See the *Architecture* section on page 37 for additional information on selecting an MICROS e7 host node.
- ◆ **Backup Interface.** Leave this field blank. No backup interfaces should be used with this feature.
- ◆ **Site ID.** Use this field to identify the location from which the package is being sent. Be certain to enter a unique identifier (e.g., Mike Rose Cafe_015). This will appear in the name of the transport file.

The default .zip file name format is **(Site ID)_(Timestamp or 3 digit sequence number).zip**.

- ◆ **Number of Days to Archive.** Enter the number of days to store the .zip file with all of the exported data. The default setting is 7 days. Acceptable values range from 1 to 7 days.

Note *All files moved to the Archive directory will have “_YYMMDD” appended to the file name.*



3. Go to the *Transport* tab and configure the following options:

The screenshot shows the 'Interfaces' configuration window. The 'Transport' tab is selected, displaying a list of configuration options for the interface 'TIFExport' (ID 4). The options and their current settings are as follows:

Name	Setting
Communication Method (0-dialup 1-broadband)	0
Transport Method (0-local 1-FTP)	0
Timestamp Transport filename	False
Outside phone line access code	0
Tone or Pulse	0
Location Country Code	1
Location Area Code	0
Dialing Country Code	1
Dialing Area Code	
Dialing Phone Number	
Dial as Local / Long Distance / International	0
User Name	
Password	
Secondary User Name	
Secondary Password	
Server Name	
FTP Directory	
FTP Filename	

- ◆ **Communication Method.** Identify the method of communication being used at the site. This field will be ignored when the **Transport Method** is identified as local.
 - Enter 0 for a Dial-up connection (default setting).
 - Enter 1 for a Broadband connection.

- ◆ **Transport Method.** Identifies the method of transporting the export data. Enter one of the following values:
 - Enter 0 to indicate that the package will be kept locally (default value). Selecting this value will cause the system to ignore fields that configure exporting to an outside source.
 - Enter 1 to indicate that the FTP export method will be used. This will export the package to an FTP server. The FTP server name is configured in the **Server Name** field.
- ◆ **Timestamp Transport File Name.** Enabling this option will cause a timestamp to append the transport file name (e.g., SiteID_MMDDYY.zip) (default behavior). When disabled, a three digit sequence number should append the transport file name (e.g., SiteID_001.zip).
- ◆ **Outside Phone Line Access Code.** Enter the numbers that should be dialed in order to access an outside phone line (e.g., dial 9 to dial outside of the company). Leave this field blank if additional numbers do not need to be dialed.
- ◆ **Tone or Pulse Dialing.** For a dial up connection, identify whether a tone or a pulse is used to dial.
 - Enter 0 to identify tone.
 - Enter 1 to identify pulse.
- ◆ **Location Country Code.** Enter the country code that identifies the location of the store sending the transport file. Valid values range from 1 to 999. The default value is 1 for the United States.
- ◆ **Location Area Code.** Enter the area code of the location where the call originates when using a dial up connection to transmit the export data.
- ◆ **Dialing Country Code.** Enter the country code that identifies the location of where you are calling. This will be the same as the value identified in the **Location Country Code** field unless an international call is being made. Valid values range from 1 to 999. The default value is 1 for the United States.

- ◆ **Dialing Area Code.** Enter the area code that identifies the location that you are calling.
- ◆ **Dialing Phone Number.** Enter the local phone number (the last 7 digits of a telephone number) to call when using a dial up connection to transmit the export data.
- ◆ **Dial as Local/ Long Distance/ International.** Determine the dialing pattern of a dial-up connection based on whether a local, long distance or an international call is being made. Select from one of the following values:
 - **0.** Indicates a local area telephone number will be dialed. This includes the Area Code + Local Number.
 - **1.** Indicates a long-distance telephone number will be dialed. This includes a 1 + Area Code + Local Number.
 - **2.** Indicates that an international telephone number will be dialed. This includes the Country Code + Area Code + Local Number.
- ◆ **User Name.** Enter the user name that will be required for authentication if accessing a private network/ Internet Service Provider (ISP).
- ◆ **Password.** Enter the password that will be required for authentication if accessing a private network/ Internet Service Provider (ISP).
- ◆ **Secondary User Name.** Enter the user name required for authentication or to access a controlled site (e.g., a company's FTP site). If using dial-up the user may need one user name and password to authenticate and access an ISP, and a second user name and password to access a protected resource such as an FTP site.

- ◆ **Secondary Password.** Enter the password required for authentication or to access a controlled site (e.g., a company's FTP site). If using dial-up the user may need one user name and password to authenticate the access an ISP, and a second user name and password to access a protected resource such as an FTP site.
 - ◆ **Server Name.** Enter the name of the location where the export package is being transmitted (e.g., ftp.mikeroosecafe.com).
 - ◆ **FTP Directory.** Enter the directory location where the package file will be sent is usually left blank and the default path will be used.
 - ◆ **FTP Filename.** Enter a name for the file being sent. This field will usually be left blank and the default name will be used (e.g., **SiteID_MMDDYY.zip**).
4. Save all work.

5. Go to the *Restaurant | General* tab and configure the following options in the *Automatic EOD* section of the form. If one is not already in place, MICROS strongly recommends creating an autosequence to perform all closing duties for the establishment (e.g., End of Day Autosequence).

The screenshot shows the MICROS e7 Restaurant General tab configuration screen. The 'Automatic EOD' section is highlighted, showing options for 'Autosequence', 'Run on', and 'Start Time'. The 'Autosequence' dropdown is currently empty. The 'Run on' dropdown is set to 'MY PC'. The 'Start Time' dropdown is set to '04:00 AM'. Other sections include 'Demo Mode', 'Business Date', 'Location', 'Customer Display Message', 'Language', and 'Export Parameters'.

- ◆ **Autosequence.** Use the drop-down box to select the Autosequence to run automatically at the configured time. The selected autosequence must contain **Update Business Date** autosequence action.
- ◆ **Run on.** Select the workstation or PC where the nightly autosequence is run. This should be the workstation or PC identified as the Export interface host node.

- ◆ **Start time.** Select the time when the automatic autosequence will occur to transmit the export files. MICROS recommends that you select a time when the establishment is always closed for business but before employees start to arrive in the morning. This time must be later than the *Business date start time*.

6. Go to the *Autosequences* form and highlight the autosequence selected in the *Restaurant / General / Autosequence* drop-down box.

MICROS recommends selecting the End of Day Autosequence.

Number	Name
400	End Of Day
401	Sys Balance TODAY
402	End of Shift
403	System Balance Week
404	System Balance Daily
405	MI Sales Daily
406	MI Sales Weekly
407	Labor Daily
408	Labor Weekly
409	Pre-Close
410	Clock In Status
411	Open Check
412	Closed Check
413	Increment Bus Date
414	Payroll Export
415	Employee Listing
416	MI Status
417	MI Availability
418	MI Price Category
419	MI Sales Category
420	MI Detail Sales
421	Reset Availability
422	MI Price Name
423	MI Sales Name
424	Job Code
425	Labor Availability
426	Inc All WS Shifts
427	WS Cons Shift

Type	Skip step
Action	No
Report	No
Action	No
Call Autosequence	Yes
Action	No

- ◆ Go to the *Action* tab on the bottom-right hand side of the form and select the Green Plus Arrow to add an autosequence action.

- ◆ Use the **Action** drop-down box to select the **Update Bus Date** action. This step is required to create and export the package.

The Export interface is now operational. The designated data will be exported as part of the daily End of Night Autosequence.

Importing Data Into Third Party Software

Once the data is exported as part of the End of Night autosequence, it is in text file format. The user can now import and process the data using a third party application of their choice. In order to accomplish this, additional development may be required.

For information on the text files and data exported by the MICROS e7 system, see the *MICROS e7 Export Engineering Specification Documentation, MD0007-021*.

Operations

Workstation 4 LX Supported

With this release, the Workstation 4 LX (WS4 LX) is supported. The WS4 LX offers faster processing power and more memory than the Workstation 4.

When MICROS e7 is running on the WS4 LX, the Taskbar that displays at the bottom of the screen in Windows will be automatically set to AutoHide. The Taskbar will not display while MICROS e7 is running. When MICROS e7 is closed, the user will have to run the cursor over the Taskbar in order for it to display.

This workstation will not be available for sale until after the release of MICROS e7 Version 2.6. Contact your MICROS sales representative for more information.

MICROS e7 Version 2.6

What's Enhanced

An enhancement is defined as a change made to improve or extend the functionality of the current MICROS e7 software. 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 version.

Module	Feature	Page
Operations	Table View Enhancement	48
	Workstation 4 Taskbar Enhancement	50
Stored Value Cards	Display the Last 4 Digits of the SVC Account Number and Mask the Preceding Digits	51
	Reversal Will Appear at the Top of a Chit When a Transaction Reversal is Performed	52

Operations

Table View Enhancement

With this release, MICROS e7 has enhanced the table view display in Operations. Previously, when beginning a check by table, the user would select a table from the table view. There was no way to tell via the table view display whether a check was already open for that table.

If only one open check was allowed for each table (*Configurator / Restaurant / Posting / Only one group per table*), and the user tried to begin a check, they would receive the following error message:



Selecting [**Ok**] would return the user to the table view and they would have to pick another table.

If multiple checks were allowed for each table the only way to know multiple checks were opened on a table was to refer to the group number on the check.

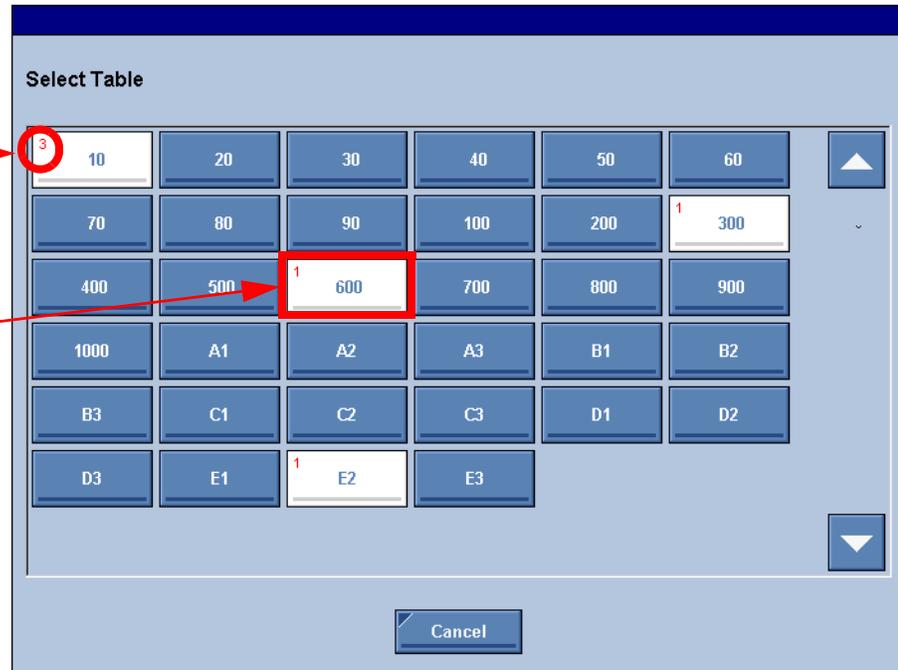
For example, if there were two open checks for table 600, the first check would display as 600-1, while the second check would display as 600-2.

MICROS				ALL DAY	Ready f
Check -	Table	Name	Time	Amount	Employee
9	600-2		09:19AM	16.50	MICROS
7	10-4		09:06AM	0.00	MICROS
6	10-3		09:06AM	23.00	MICROS
5	10-2		09:05AM	24.50	MICROS
4	E2-1		08:27AM	4.00	MICROS
3	300-1		08:26AM	35.45	MICROS
2	600-1		08:26AM	14.95	MICROS
1	10-1		08:25AM	29.72	MICROS

MICROS e7 has enhanced the table view to automatically indicate which tables have open checks by displaying the table key in white. The number of open checks for each table will also appear on the table key.

The number of open checks will automatically display in the top left corner of the table key.

A table with an open check will automatically appear in white.



The ability to immediately determine the tables with open checks will improve employee productivity and reduce the amount of time required to begin a check.

There is no additional configuration is required. This enhancement is now system default behavior.

Workstation 4 Taskbar Enhancement

When MICROS e7 is running on the WS4, the Taskbar that displays at the bottom of the screen in Windows will be automatically set to AutoHide. The Taskbar will not display while MICROS e7 is running. When MICROS e7 is closed, the user will have to run the cursor over the Taskbar in order for it to display.

Stored Value Cards

Display the Last 4 Digits of the SVC Account Number and Mask the Preceding Digits

When a Stored Value Card (SVC) was used as a tender, MICROS e7 would only display the last 4 digits of the account number on the chit.

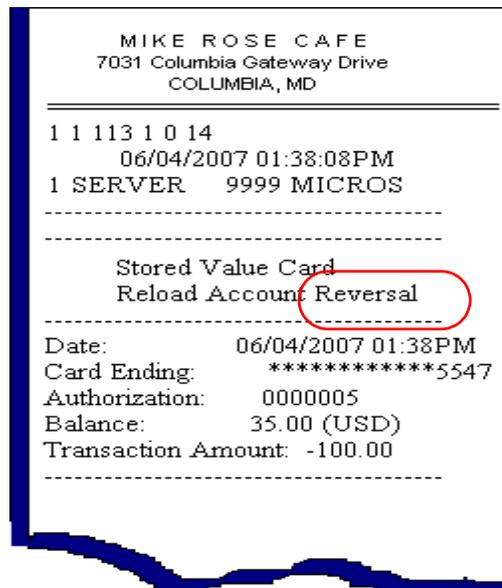
With this release, MICROS e7 will display the entire account number with all but the last 4 digits masked on the chit.



Reversal Will Appear at the Top of a Chit When a Transaction Reversal is Performed

Previously, when an SVC transaction was reversed, the user had no visual cue to determine that a reversal had occurred except for the negative character (e.g., -) appearing in front of the transaction amount.

Now, when an SVC transaction reversal is performed, the text **Reversal** will appear at the top of the chit, appended to the name of the SVC transaction. For example, a Reload Account transaction is now Reload Account Reversal.



MICROS e7 Version 2.6

What's Revised

A revision is defined as a correction made to any existing form, feature, or function currently resident in the MICROS e7 product. 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 version.

Module	Feature	CR ID	Page
Operations	Attempting to Use On Demand Printing When Combo Meal Consolidation was Applied to the Check Will Cause MICROS e7 to Close	N/A	54
	The Close Cash Drawer Dialog Box Does Not Display on a Workstation Running Version 2.0 of the Compact Framework	N/A	54

**Revisions
Detailed**

Operations

Attempting to Use On Demand Printing When Combo Meal Consolidation is Applied to the Check Will Cause MICROS e7 to Close

CR ID#: N/A

Previously, applying the combo meal consolidation feature (e.g., selecting the auto combo recognition key, repeating a combo meal order) and attempting to use On Demand Receipt Printing would cause MICROS e7 to close unexpectedly. This issue has been fixed.

The Close Cash Drawer Dialog Box Does Not Display on a Workstation Running Version 2.0 of the Compact Framework

CR ID#: N/A

Previously, when the cash drawer opened on a workstation running Version 2.0 of the Compact Framework, the dialog box would not display indicating that the drawer must be closed for operations to resume. This issue has been corrected.