

**Oracle® MICROS e7**  
Release Notes  
Version 4.1

February 2015

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# Preface

This document describes the features and changes included in the Oracle MICROS e7 Version 4.1 release.

## Audience

This document is intended for all users of MICROS e7.

## Related Documents

For more information, see the following documents in the MICROS e7 Release 4.1 documentation set:

- Oracle MICROS e7 4.0 Installation Guide
- Oracle MICROS e7 Version 3.3 or Higher Payment Application-Data Security Standard (PA-DSS) Implementation Guide

## Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.3) or a later patch release (for example, 13.3.1). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

## Revision History

Date	Description of Change
29-Jan-2015	<ul style="list-style-type: none"><li>• Initial publication.</li></ul>

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# Features and Updates

This section describes the features and updates included in this release.

## Enhanced tax display

CR ID#: N/A

TP ID#: 68641

This feature adds compliance to international requirements for collecting, storing, and making available auditing information about taxes collected on individual transactions.

## Tax class indicator

This feature adds support for showing tax classes on guest checks and in journals.

- You can configure an Indicator field for tax classes to be used on a guest check and in journals.
- Guest checks print the Indicator on the same line as the item after the price using the format T#. The guest check prints all tax classes for each item and prints NT if the item has no associated tax class.

## Configuring the tax class indicators

To configure the tax class indicator on guest checks:

1. In the e7 Configurator, select **Tax Rates** and then select the **General** tab.
2. Select **Print Indicator with Item**.
3. Click **Save**.

To print the tax rate totals in the guest check summary:

1. In the e7 Configurator, select **Restaurant** and then select the **Guest Check Summary** tab.
2. Click **Insert New Row** and select **Tax Rate Totals**.
3. Click **Save**.

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**Note:** You must enable the **Print tax rate lines** option on the Printing tab for each tender to print the tax rate totals line on the guest check.

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## Audit support

This feature adds assistance for tax authorities performing an audit at a site that collects taxes.

- POS Operations stores each printed guest check to an audit journal to log and track the taxability of each sale, the amount of tax due, and the amount of tax collected.
- MICROS e7 provides a standalone journal validation application that confirms that the journal has not been altered.

MICROS e7 now ensures that:

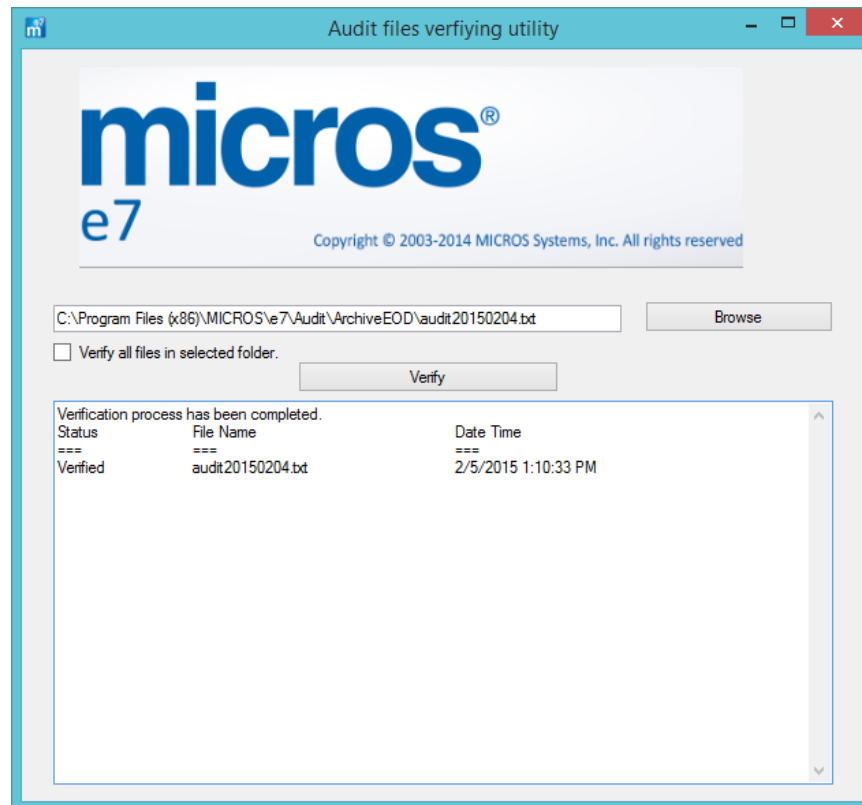
- Users maintain auditable, internal controls to ensure the accuracy and completeness of the transactions recorded in the POS system.

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- Changes to the setup of the system can be provided to the audit or logging system.
  - All data is stored in a commonly-used format.

## Configuring the audit interface

1. In the e7 Configurator, select **Interfaces**.
2. Click **Add new record** and select Audit from the **Interface** drop-down list.
3. On the **Setup** tab:
  - a. Enter the number corresponding to the **Hash Algorithm** you want to use:
    - 1 = SHA1
    - 2 = SHA256
    - 3 = SHA386
    - 4 = SHA512By default, e7 uses 4 (SHA512). You must set the value to 1 (SHA1) if you are hosting the audit interface on a Workstation 4.
  - b. Enter the number of times e7 rehashes the audit data file in the **Iterations** field. If you enter a large value for this field, the workstation hosting the audit interface can experience performance issues.  
By default, e7 uses 2, or the minimum allowed number of iterations.
  - c. Enter the **Audit Journal Name** for the audit file.
  - d. Enter the full path to the **External Drive Path for EOD Archive**. This drive can be a USB drive, another hard drive on the PC, or a drive on another PC on the network. If you are configuring the EOD Archive file to be on another PC on the network, you must map a drive to that PC on the workstation hosting the audit interface.  
If you do not specify a path in this field, e7 creates and stores archives in the \MICROS\e7\Audit\Archived EOD\ folder.
4. Click **Save**.

## Verifying an audit journal



**Figure 1 - Audit verification tool**

This release includes the AuditVerify.exe audit verification utility for verifying that the audit journal has not been modified. To verify an audit journal, perform the following steps:

1. Run the audit verification utility:
  - a. On a PC, navigate to \MICROS\e7\Bin\ and double-click AuditVerify\_Win32.exe.
  - b. On a workstation, navigate to \MICROS\e7\Bin\ and double-click AuditVerify.exe.
2. Click **Browse** and select the audit file you want to verify.  
If you want to verify a batch of audit files, select a folder instead of an audit file and select the **Verify all files in selected folder** option. Depending on the number of files being verified, this option can cause the operation to take considerably longer.
3. Click **Verify**.
4. Confirm the verification status as shown in Figure 1.

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# **System Requirements, Supported Systems, and Compatibility**

## **Supported Workstations**

- Workstation 4
- Workstation 4LX
- Workstation 5
- Workstation 5A
- mTablet R-Series

## **Supported PC Operating Systems**

- Microsoft Windows Server 2003 (32-bit)
- Microsoft Windows Vista Business Edition
- Microsoft Windows 7 Professional (32-bit and 64-bit)
- Microsoft Windows 8 (32-bit and 64-bit)
- Microsoft Windows 8.1 (32-bit and 64-bit)

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# Installation and Upgrade

See the *MICROS e7 4.0 Installation Guide* for instructions and information pertaining to installing or upgrading to MICROS e7 4.0 on a deployment environment.

## PCI Compliance upgrade best practices

See *MICROS e7 Payment Applications Best Practices (PABP) Compliance* for more information about PCI Compliance.

Non-compliant versions of MICROS e7 pose a security risk with regards to data such as credit card numbers. This data must be removed to ensure that the MICROS software upgrade is conducted in accordance with PCI compliance.

Use the following table to determine whether you are performing an upgrade from a Non-PCI-compliant version to a PCI-compliant version. You do not need to perform the upgrade steps in this section if you are upgrading from a version that is already PCI compliant.

PCI-compliant	Non-PCI-compliant
<ul style="list-style-type: none"><li>• 2.1 and patches 1, 2, 3, and 4</li></ul>	1.0
<ul style="list-style-type: none"><li>• 2.5</li></ul>	1.5 and patch 1
<ul style="list-style-type: none"><li>• 2.6 patches 1, 2, and 3</li></ul>	2.0
<ul style="list-style-type: none"><li>• 2.7 patches 1 and 2</li></ul>	2.0 and patches 1 and 2
<ul style="list-style-type: none"><li>• 2.8</li></ul>	2.7
<ul style="list-style-type: none"><li>• 3.0</li></ul>	
<ul style="list-style-type: none"><li>• 3.1</li></ul>	
<ul style="list-style-type: none"><li>• 3.2</li></ul>	
<ul style="list-style-type: none"><li>• 3.3</li></ul>	
<ul style="list-style-type: none"><li>• 4.0</li></ul>	
<ul style="list-style-type: none"><li>• 4.1</li></ul>	

## Clearing Virtual Memory

The Microsoft Windows operating system uses virtual memory to optimize the use of RAM and disk memory. MICROS e7 can write sensitive data to the virtual memory during data swap process between the RAM and virtual memory.

To configure the operating system to automatically clear virtual memory whenever a MICROS e7 PC reboots:

1. Click **Start**.
2. Click **Control Panel**.
3. Click **Administrative Tools**.
4. Click **Local Security Policy**.
5. Double-click **Local Policies**.
6. Select **Security Options**.
7. Depending on your operating system, double-click the policy as shown in the following table:

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Operating System	Policy Name
Microsoft Windows Vista Business	Clear Virtual Memory Page File When System Shuts Down
Microsoft Windows Server 2003	Shutdown: Clear Virtual Memory Pagefile
Microsoft Windows 7	
Microsoft Windows 8	
Microsoft Windows 8.1	

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8. Select **Enabled**.
9. Click **OK**.

## Remove old database copies and logs

Use a data removal utility to wipe data from the system. The utility must overwrite data with garbage data to prevent access to the original information. The operating system delete function does not comply with PCI security standards because it unlinks the filename from the data but leaves the data intact on the system.

You must remove all database copies, logs, and any other files that contain customer data. If you do not think you can locate all files that must be removed, security compliance recommends reinstalling the system on a reformatted hard drive.

Do not wipe current database files. MICROS e7 stores these files in the \MICROS\e7\db\ folder.

## Backing up the current database

1. In the e7 Configurator, select **Functionality**.
2. Select **Backup the Database**.  
e7 creates and stores the database backup file (backup.001.gz or backup.002.gz) in the \MICROS\e7\dbbackups\ folder.
3. Make a copy of the backup file and place it in a secure location.

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# Issues

## Resolved

Module	CRID	TPID	Description
Operations	35985	81072	The table layout template on the mTablet now fills the entire width of the screen.
Reports/ Autoseq	35827	78381	The total number of seconds on the Job Code Fixed Period Totals report now correctly matches the total hours on the Job Code Labor report.
Inventory	35525	69971	If you add a purchase and select an inventory item, e7 no longer fails to identify a unit of measure and no longer shows an error message about the incorrect unit of measure.
Inventory	34614	37551	The Stock on hand report no longer fails to update and now shows the correct count for all inventory items. If an inventory item does not have a specified unit of measure, the report posts an error in the log file and shows a report for all items that have a specified unit of measure.
Operations	34564	36700	Protégé now correctly shows active rules when ringing in a menu item with active rules.