

**Oracle® Hospitality Cruise Meal Count  
System**  
Security Guide  
Release 8.0  
**E99233-02**

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# Preface

This document provides security reference and guidance for Oracle Hospitality Cruise Meal Count System (MCS).

## Audience

This document is intended for:

- System administrators installing Meal Count System.
- End users of Meal Count System.

## Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:  
<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screen shots of each step you take

## Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at  
<http://docs.oracle.com/en/industries/hospitality/>

## Revision History

Date	Description of Change
August 2018	<ul style="list-style-type: none"><li>• Initial publication</li></ul>
February 2019	<ul style="list-style-type: none"><li>• Revised Version Number</li></ul>

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# 1 Meal Count System Security Overview

This chapter provides an overview of Oracle Hospitality Meal Count System security and explains the general principles of application security.

## Basic Security Considerations

The following principles are fundamental to using any application securely:

- **Keep software up to date.** This includes the latest product release and any patches that apply to it.
- **Limit privileges as much as possible.** Users should be given only the access necessary to perform their work. User privileges should be reviewed periodically to determine relevance to current work requirements.
- **Monitor system activity.** Establish who should access which system components, and how often, and monitor those components.
- **Install software securely.** For example, use firewalls, secure protocols using Transport Layer Security (TLS) (SSL), and secure passwords. *See Chapter 2 Performing a Secure Fine Dining System Installation* for more information.
- **Keep up to date on security information.** Oracle regularly issues security-related patch updates and security alerts. You must install all security patches as soon as possible. See the “Critical Patch Updates and Security Alerts” website: <http://www.oracle.com/technetwork/topics/security/alerts-086861.html>

## Overview of Meal Count System Security

### Meal Count System Architecture Overview

Meal Count System is a collection of 4 modules. It is scalable and can be deployed on a single machine.

### User Authentication

#### Overview

Authentication is the process of ensuring that people are who they say they are.

#### Client Authentication

All users’ credentials of Meal Count System are stored in the database. Anyone who wish to access the clients must provide a valid user name and password. To ensure strict access control of the Meal Count System, always assign unique usernames and complex passwords to each user. Password must be at least eight characters long including letters and numbers.

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## Database Users

The Meal Count System works with Oracle Server databases.

## Understanding the Meal Count System Environment

When planning your Meal Count System implementation, consider the following:

- **Which resources need to be protected?**
  - You need to protect customer data.
  - You need to protect internal data, such as proprietary source code.
  - You need to protect system components from being disabled by external attacks or intentional system overloads.
- **Who are you protecting data from?**

For example, you need to protect your subscribers' data from other subscribers, but someone in your organization might need to access that data to manage it. You can analyze your workflows to determine who needs access to the data; for example, it is possible that a system administrator can manage your system components without needing to access the system data.
- **What will happen if protections on strategic resources fail?**

In some cases, a fault in your security scheme is nothing more than an inconvenience. In other cases, a fault might cause great damage to you or your customers. Understanding the security ramifications of each resource will help you protect it properly.

## Recommended Deployment Configurations

This section describes the recommended deployment configurations for Meal Count System.

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The Meal Count System product can be deployed on a single server. The simplest deployment architecture is the one shown in [Figure 1](#) below.



**Figure 1 - Single-Computer Deployment Architecture.**

This single-computer deployment may be cost effective for small organizations; however, it cannot provide high availability because all components are stored on the same computer. In a single server environment such as the typical installation, the server should be protected behind a firewall.

- Blocking any traffic types that are known to be illegal
- Providing intrusion containment, should successful intrusions take over processes or processors

## Component Security

### Operating System Security

Prior to installation of Meal Count System, it is essential that the operating system are updated with the latest security updates.

Refer to the following Microsoft TechNet articles for more information about operating system security:

- [Windows Server 2012 Security](#)

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- [Windows Server 2008 R2 Security](#)

## **Oracle Database Security**

### **Oracle Database**

Refer to the [Oracle Database Security Guide](#) for more information about Oracle Database security.



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## 2 Performing a Secure Meal Count System Installation

This chapter presents planning information for your Meal Count System installation.

### Pre-Installation Configuration

Prior to installation of Meal Count System, perform the following tasks:

- Apply critical security patches to the operating system
- Apply critical security patches to the database server application
- Acquire TLS compliant security certificate from Certification Authority

### Meal Count System Installation

You can perform a custom installation or a typical installation. Perform a custom installation to avoid installing options and products you do not need. If you perform a typical installation, remove or disable features that you do not need after the installation. The installation requires the user running the installation to have an administrator privileges. No other users have the required access to successfully complete the installation.

When creating a database, enter a complex password that adheres to the database hardening guides for all users.

The following modules are required for proper operation of the system:

1. MICROS Point-of-Sale (POS) and Interface
2. MCS Display
3. MCS Configurator
4. MCS Scanning Station

### Post-Installation Configuration

This section explains the additional security configuration steps to complete after Meal Count System is installed.

#### Operating System

##### Turn On Data Execution Prevention (DEP)

Turn on DEP if required. Refer to the Microsoft product documentation library at <https://technet.microsoft.com/en-us/> for instructions.

##### Turning Off Auto Play

Turn off Auto play if required. Refer to the Microsoft product documentation library at <https://technet.microsoft.com/en-us/> for instructions.

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## Turning Off Remote Assistance

Turn off Remote Assistance if required. Refer to the Microsoft product documentation library at <https://technet.microsoft.com/en-us/> for instructions.

## Application

### Software Patches

Apply the latest Meal Count System patches available on [My Oracle Support](#), if any. Follow the deployment instructions included with the patch.

## Passwords Overview

The configuration of Meal Count System product passwords is performed in the Meal Count System Administration module. Administrators are recommended to configure a strong password policy after initial installation of the application and review the policy periodically.

### Maintaining Strong Passwords

Ensure that passwords adhere to the following strength requirements:

1. The password must be at least eight characters long.
2. The password must contain letters, numbers.
3. Must not choose a password equal to the last three passwords used.

### Change Default Passwords

Meal Count System is installed with a default administrative user and password. Please change the default administrative user password in the Meal Count System, following the above guidelines, after logging in for the first time.

### Configure User Accounts and Privileges

When setting up users of the Fine Dining System application, ensure that they are assigned the minimum privilege level required to perform their job function. User privileges are described in Access Control of the user guide.