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1 Introduction

This document will guide you through the process of setting up a Windows server or PC to host the Session Manager (SM) application. This document applies to SM version 4.7 and later. Refer to [Session Manager – Installation Guide v4.4.docx](#) and [Session Manager - Installation Guide v4.0.docx](#) for earlier versions.

2 Session Manager Host Machine and Client

2.1 PC Hardware

The recommended hardware specifications are:

- x64 1.5 GHz or higher multi-core processor
- 8 GB RAM
- 100 GB disk space

2.2 Windows Platform

The recommended operating system is Microsoft Windows Server 2019 or higher, or Microsoft Windows 11.

2.3 Windows Update

Make sure all important updates from Windows Update are installed before proceeding. Check for updates again after installing them, until there are no more.

2.4 Client

The SM client is a browser. The approved browsers are:

- Google® Chrome®
- Microsoft® Edge®

Microsoft Windows 11 includes Microsoft Edge

3 SQL Server

SM uses a SQL Server database. The minimum version is SQL Server 2012; later versions are supported. SQL Server Express Edition can be used. The database may be hosted on the server where SM is installed or on a different machine, e.g. a database server. If the database is hosted on a separate machine, Microsoft SQL Server Management Studio (SSMS) is required to be installed on the SM host. Only SQL Server Authentication is supported.

3.1 Install SQL Server Express

If SM is hosted on the same machine as the database, install SQL Server Express and SQL Server Management Studio

1. Download the latest SQL Server Express
2. Begin install and choose “Custom” installation.
3. At the “SQL Server Installation Center” select “New SQL Server stand-alone installation...”
4. Go through wizard and select all defaults except for the following:
 - a. “Instance Configuration” section: Select “Default instance” and verify the instance name becomes “MSSQLSERVER”
 - b. “Database Engine Configuration” section: select “Mixed Mode (SQL Server authentication and Windows authentication)”
 - i. Enter for the password: “Lancaster11”
 - ii. Note: This password is used when you want to connect to the DB with SQL Server Management Studio with username “sa”
5. Finish the wizard
6. At the “SQL Server Installation Center” select “SQL Server Management Tools”
7. Download the latest SQL Server Management Studio (SSMS)
8. Install Microsoft SQL Server Management Studio

4 Session Manager Installation

4.1 Copy Files and Unzip

1. Copy Session Manager ZIP to host PC
2. Unzip Session Manager ZIP

4.2 Database Deployment

Use SQL Server Management Studio to install the database package (DACPAC)

1. Launch SQL Server Management Studio
2. Login as “sa”
 - a. Select “SQL Server Authentication”
 - b. Enter for User: “sa”
 - c. Enter for Password: “Lancaster11”
3. From the object explorer, right-click on “Databases” and select “Deploy Data-Tier Application.”
4. Go through wizard and select all defaults except for the following:
 - a. Navigate to the SM.dacpac file included in the installation folder.
5. Finish the wizard

4.3 Install Session Manager

Session Manager will install by default to C:\Program Files\Freeport Technologies.

1. Launch “SessionManagerSetup.exe.”
2. It is recommended not to install a web server on the root partition. If possible, choose an installation location on a different partition or drive. Select Options to change the installation folder. Click OK to save the installation location.
3. Click Install to install Session Manager.

4.4 Session Manager Post-Install Settings

1. Some settings can be modified by editing the file appsettings.json in the installation directory:
 - a. Change the listen port
 - b. Change the certificate (path and password)
 - c. Change the log level

Restart the Freeport Session Manager service to apply changes

2. Registry settings can be modified. Settings located at:
“HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Freeport Technologies\Enterprise Room Control\Database”
 - a. PWD: Password for “SmUser” to connect to DB. The password is entered as plain text, and will be encrypted after first use.
 - b. SQLSRVR: Location of SQL Server. If DB is collocated with Session Manager, this will be “localhost”. If the server name and/or SQL Server instance name are different, the format is: “<server IP/hostname>\<instance name>”, i.e. “localhost\SQLEXPRESS”
 - c. SQLDB: The name of the database within the SQL Server instance.

These settings should not need to be changed. Also, these are the only changes recommended, if needed. Local policy may require any of these settings to be changed.

4.5 Kiosk Mode Touch Panels

There is no change to kiosk mode from previous versiona. Client-only kiosk mode touch panels do not need to be upgraded.

5 Upgrades

5.1 Upgrade the database

Use SQL Server Management Studio to update the database

Launch SQL Server Management Studio

Login with Windows authentication or SQL Server authentication credentials

From the object explorer, open the “Databases” folder

Right-click on the “SM” database and select Tasks -> Upgrade Data-tier Application

Go through wizard and select all defaults except for the following:

Navigate to the SM.dacpac file included in the installation folder.

Finish the wizard

5.2 Upgrades with Redundant Servers

To upgrade a system with peered Session Manager servers, follow this procedure.

1. Upgrade the idle server(s).
2. Transfer control to the idle server.
3. Upgrade the server that was controlling the system.

5.3 Upgrade SM

1. Open Windows Control Panel and navigate to Programs and Features.
2. Right-click on Session Manager and select Uninstall.
3. Click Uninstall.
4. Follow the steps in section 5.1 to upgrade the database.
5. Follow steps in sections 4.3 to install the new version of Session Manager.

5.4 Remove SM

1. Open Windows Control Panel and navigate to Programs and Features.
2. Right-click on Session Manager, and select Uninstall.
3. Remove the installation directory (“C:\Program Files\Freeport Technologies\Session Manager\” by default.)
4. Remove the Paul Bunyan installation directory, C:\Freeport Technologies\Paul Bunyan by default
5. Delete the registry entries under
“Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Freeport Technologies\Enterprise Room Control” and
“Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Diamond Sierra\Paul Bunyan.”