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Installing and Configuring MPM on Citrix or Terminal Services

This article explains how to install and configure **MPM** on **Citrix**. The information in this article should also be used for **Terminal Server** installations.

Note: The information in this article is based on limited testing of **MPM** in a **Citrix** environment. Limited support for configuring and using **MPM** on **Citrix** is available through **Deltek Customer Care**. Though you are welcome to try other configurations, our support is restricted to the configuration detailed in this article.

Any problems deemed to be as a direct result of running **MPM** in a **Citrix** or **Terminal Server** environment will be evaluated and addressed at the discretion of Deltek.

In addition, since Deltek provides limited support for this configuration, we encourage you to consider purchasing a support contract through **Pervasive** for any issues that may arise with the server edition of the database engine or connectivity between the database and **Citrix** servers.

Resolution:

Installing and configuring **MPM** on **Citrix** requires two servers and the **Server Edition** of **Pervasive.SQL** (purchased separately). The primary purpose of installing **MPM** in a **Citrix** environment is to alleviate performance issues that are generally associated with latency in data transmission over long distances, such as one might find in a **WAN** or **MAN** environment. To achieve the desired performance enhancement, both servers should be in the same physical location and share a fast **LAN** connection. Below is an overview of each server and suggested steps for installation in this environment.

Servers Overview:

Database Server: A server running the **Server Edition** of **Pervasive.SQL**, separate from the server where **MPM** is installed, is required for this configuration. This server should consist of the following:

- **Pervasive.SQL Server Edition** (purchased separately).
- Shared location where all **MPM** data and **MPM** System files are stored.
- Shared location where **MPM Working Directories** and associated files and folders for each user are stored.

Note: When purchasing the **Pervasive Server Edition**, be sure to get the version that works with the **MPM** version you plan to use. Below is a list of **MPM** versions and associated **Pervasive** versions:

- MPM 3.1 - Pervasive Server Edition v8.6 (32-bit)
- MPM 3.2 - Pervasive Server Edition v9.50 (32-bit)
- MPM 3.3 - Pervasive Server Edition v9.50 (32-bit)
- MPM 3.4 - Pervasive Server Edition v10.30 (32-bit)

The **64-bit** versions of **Pervasive** are not supported and will not work with **MPM**.

Depending on where the **Pervasive** version is in the **Pervasive** support lifecycle, you may find a 30-day trial of the **Pervasive Server Edition** on their website or on one of their reseller websites. Some sites to look for a 30-day trial on are <http://www.pervasive.com> and <http://www.goldstarsoftware.com>. It is necessary to purchase and apply the purchased licenses for the **Pervasive Server Edition** after the 30-day trial has ended.

Citrix Server: A **Citrix** server (or **Terminal Server**), separate from the Database Server, is required for this configuration. This server will act as a workstation for MPM users. This server should have the following characteristics:

- **MPM Standalone Installation**

- **MPM** data and **MPM System** files should not be located on this server. These files should be housed on the Database Server mentioned earlier.

Note: The Workstation install can be used instead of the Standalone install, however the Standalone install with local executable files are recommended for optimal performance.

- Configure the **Pervasive.SQL Workgroup Edition**, which is installed with **MPM**, to run as a service on this server.
- Modify the **Start in** directory for the **MPM** shortcut or published **Citrix** application to point to individual **Working Directories** created for each user on the **Database Server**, using the **%USERNAME%** variable.

Installation Procedure:

The following directions will be preceded by **DS:** for **Database Server** and **CS:** for **Citrix Server**. Perform each action on the appropriate server.

1. **DS:** Install the **Pervasive Server Edition** (purchased separately) from the server console to a local drive.

Note: Do not use **Terminal Services**, **Remote Desktop**, or other remote applications to install the **Pervasive** engine. In a **VMWare** environment you would use **VMWare Console**.

2. **DS:** Create and share a folder for **MPM** data if one does not already exist on the **DS**. For this example, create **C:\mpm_share** and share this folder with appropriate permissions to be accessed by **MPM** users.

Note: Refer to the **MPM Installation Guide (MPM Getting Started manual in MPM 3.3** and prior versions) under **Access Control Requirements** for information on necessary permissions.

3. **CS:** It is important that all users access data in the same fashion, using the same drive letter and mapping or the same **UNC**. If you plan to access MPM data via a drive letter, map a drive to the shared folder on the Database Server.

Example: If you have created a share named **mpm_share** on server **DatabaseServer**, you would map **\\DatabaseServer\mpm_share** as drive **M:**. This mapped drive should be persistent and reconnect at login for all **MPM** users when they login to **Citrix** or **Terminal Server**.

4. **CS:** Install **MPM** by running the Standalone install from the **Citrix Server** console. Below are general tips specific to this configuration, however, detailed installation directions can be found in the **MPM Installation Guide (MPM Getting Started manual in MPM 3.3** and prior versions).
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Note: Do not use **Terminal Services**, **Citrix Remote Desktop**, or other remote applications to install **MPM** on the **Citrix Server**. In a **VMWare** environment you would use **VMWare Console**.

Ensure you enable install mode in **Terminal Services** prior to installing and disable it when done. Details can be found in the **Terminal Server** or **Citrix** documentation.

The Workstation install can be used instead of the Standalone install, however the Standalone install with local executable files are recommended for optimal performance.

Install Folders:

1. The **Executable Folder** for a Standalone install, or **Working Directory** for a Workstation install, should point to a folder on a local physical drive letter. Do not select a mapped drive letter or **UNC** path for these folders.
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Example: C:\Winmpm.

2. The **MPM System Folder** should point to the shared location on the Database Server.
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Note: The MPM System Folder should not point to the root of a drive letter or share. Instead, point this to a sub-folder of the share or a sub-folder of the drive mapped earlier and MPM will create the folder if it does not already exist. For example, Continuing the above example, the **MPM System Folder** is **M:\MPM_SYS**.

3. If installing **MPM 3.4**, ensure the option to **Install Pervasive as a Service** is selected during install. If installing a prior version of **MPM**, the **Pervasive** engine will need to be manually setup to run as a service in the below steps.
 4. **CS:** Download and apply any available **MPM Hot Fixes**.
 5. **CS:** If using **MPM 3.3** or prior, configure the **Pervasive Workgroup** engine to run as a **Service** using the **Pervasive** article, **Solution ID: 00014934** titled **Configure Workgroup or Workstation Engine to run as a Service under Windows NT, 2000, XP**, from the **Pervasive website** at <http://www.pervasive.com>.
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Note: These directions also work on a **Windows 2003** server.

6. **DS:** Create a folder that will contain the working directories for each user.
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Example: For this example we will use **C:\mpm_share\winmpm\users**.

7. Create a new folder for each user's **Working Directory**, based on their **Network Login ID**.
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Example: If the user logs into the network with an ID of **ssmith**, you would create **C:\mpm_share\winmpm\users\ssmith**.

8. **DS:** Copy the default format files (*.FMT) from the **Executable Folder** on the **Citrix Server (CS)** to each user's Working Directory.
 9. **DS:** Create the following folders in each user's **Working Directory**: **Exports**, **Imports**, **Interfaces**, and **Reports**.
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Example: Create the **Imports** folder for **ssmith** in the following location:
C:\mpm_share\winmpm\users\ssmith\Imports.

10. **CS:** Change the MPM shortcuts to use the new **Working Directory** for each **User ID**. MPM installs two MPM shortcuts, one on the desktop and one in **Start > Programs**.
 - a. Right-click these shortcuts, select **Properties**.
 - b. Modify the **Start in** folder, found under the Shortcut tab, to use the path and %**USERNAME%** variable for the new **Working Directories** on the **Database Server (DS)**.
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Example: Change the **Start in** to **M:\Winmpm\users\%USERNAME%**.

11. **CS:** Grant the necessary permissions to **MPM** users on the **Citrix Server**. Refer to the **MPM Installation Guide (MPM Getting Started manual in MPM 3.3 and prior versions)** for details.
 12. **CS:** Publish the **Desktop** or the application through **Citrix** to make it available for use. If you are publishing the application only, be sure to setup the **Working Directory** to use the same folder, including the %**USERNAME%** variable, as used in the **MPM** shortcut explained earlier. Speak with your **Citrix Administrator** or refer to the **Citrix** documentation for specifics on publishing applications.
 13. **CS:** Install an appropriate version of **MS Project** on the **Citrix Server**. **MS Project** is required for the new **MSP Link** feature.
 14. **CS:** Configure a **Default Printer** for all users. **MPM** requires a **Default Printer** be established prior to launching **MPM**.
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Note: Windows stores printers based on the user profile. Ensure all users profiles load with a default printer to avoid problems running reports, exports, print preview and other related functions in **MPM**.

Test Environments:

The above configuration was tested using the environments detailed below:

MPM 3.1, 3.2, and 3.3:

- **Citrix MetaFrame XP 1.0 with Feature Release 2**
- **ICA and NFuse** clients supplied with **Citrix MetaFrame XP 1.0 Feature Release 2**.

MPM 3.4:

- **Citrix XenAPP 5.0 on Windows Server 2008 (32-bit)**
- **Citrix Metaframe ICA Client 6.3 and XenApp Plugin 11.0.0.5357**

Details 

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Attached Files:

-  [Citrix_TermServ Diagram - KBA 58239.pdf](#) (183.65 KB)