MarkMagic PI 10.0 and JMagic 10.0

MarkMagic

By CYBRA

Support: 914-963-6600 Option 4 • Fax: 716-712-0666 • help@CYBRA.com

We identify with success.

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A. Intro to MarkMagic PI 10.0

CYBRA has now made it much easier to install and run MarkMagic PI. MMPI 10.0 now ships as its own standalone installer with Apache Tomcat built in! It is the exact same MMPI product experience that you are used to running within a separate third-party web application server, except now, MarkMagic PI Standalone runs as its' own service.

MarkMagic PI allows you to manage your MarkMagic environment through a web interface. You can print, monitor a folder for data, maintain MarkMagic users and printers, plus more through the MarkMagic PI web portal. All you need is a web browser!

MarkMagic PI Windows and Linux installation files and documentation are available via download from the CYBRA website:

www.CYBRA.com

B. Installation of MarkMagic PI 10.0

The link to download MarkMagic PI 10.0 can be found at www.cybra.com/my-downloads/. If you are prompted to open or save the file, save it to a temporary directory on your PC. Once the download is complete, find the downloaded file and extract the zip file's contents. Inside, you will find either the 64bit Windows based installer or the BIN Linux installer depending on the download you chose. If you require a 32bit Windows installer package, please contact CYBRA Support.

Prerequisites / Requirements

Java – For the Windows installation, CYBRA bundles a 64bit Java runtime with the installer package. There should be no need to install and configure your own java environment. If you do prefer to have MarkMagic PI in Windows use your own java installation, please contact help@cybra.com for assistance.

The MMPI Linux installer will locate and use your default Java VM if you already have one installed. If not, you will be prompted for the Java VM installation path.

JSVC for Linux – The **'jsvc'** package is **required** if installing MMPI on Linux. Use your preferred package manager to search for and install **'jsvc'** package.

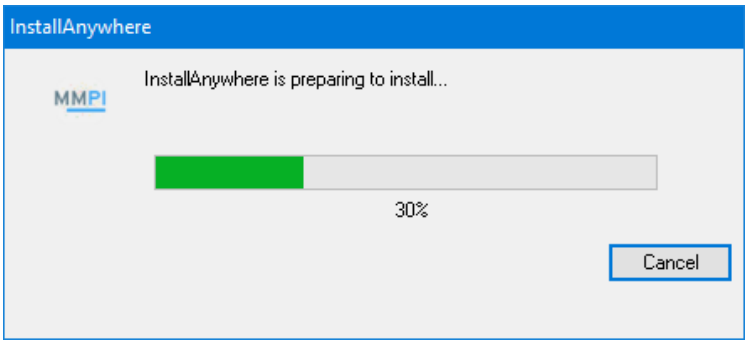
The base installation of MarkMagic PI is about 100MB and will gradually grow from there as you design more labels and forms.

Any modern-day server should be able to run MarkMagic PI. Naturally, as your printing volume grows throughout your company, your server hardware requirements will need to be adjusted up. MarkMagic PI can run on a simple dual core server with 512MB ram all the way up to enterprise level servers. Please contact help@cybra.com if you would like to discuss adjusting MMPI memory settings for high volume printing situations.

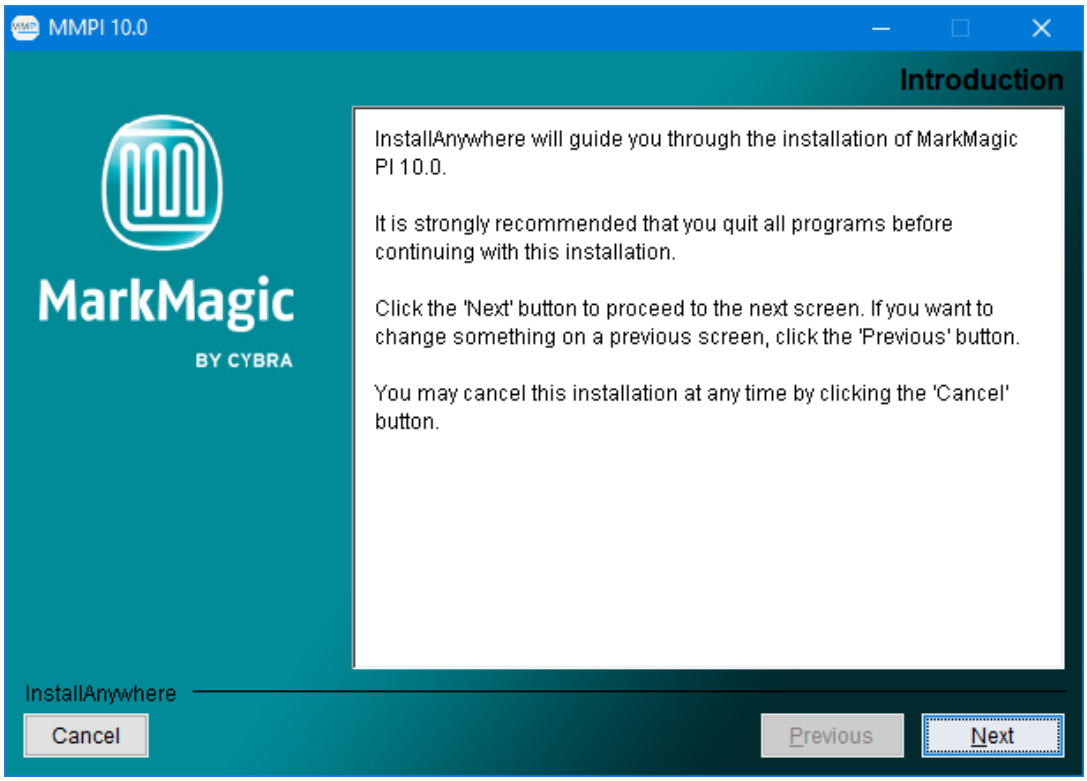
In the next sections, we will discuss ***NEW*** installations of MarkMagic PI version 10.0 in Microsoft Windows and Linux. For users that have existing installations of MarkMagic PI version 9.5 or earlier, please contact CYBRA Support help@cybra.com for upgrade assistance.

MarkMagic PI Windows Installation

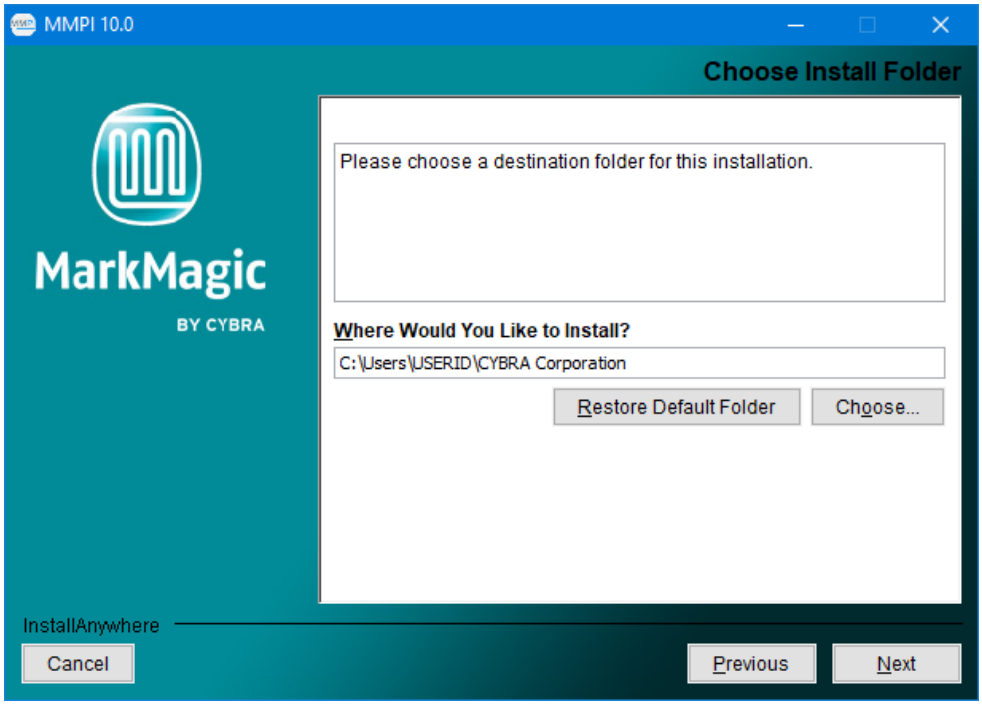
Locate the Windows MMPI Standalone installer exe that you downloaded from www.CYBRA.com. Double click to run the installer.



Welcome to the MarkMagic PI 10.0 Windows Installer:

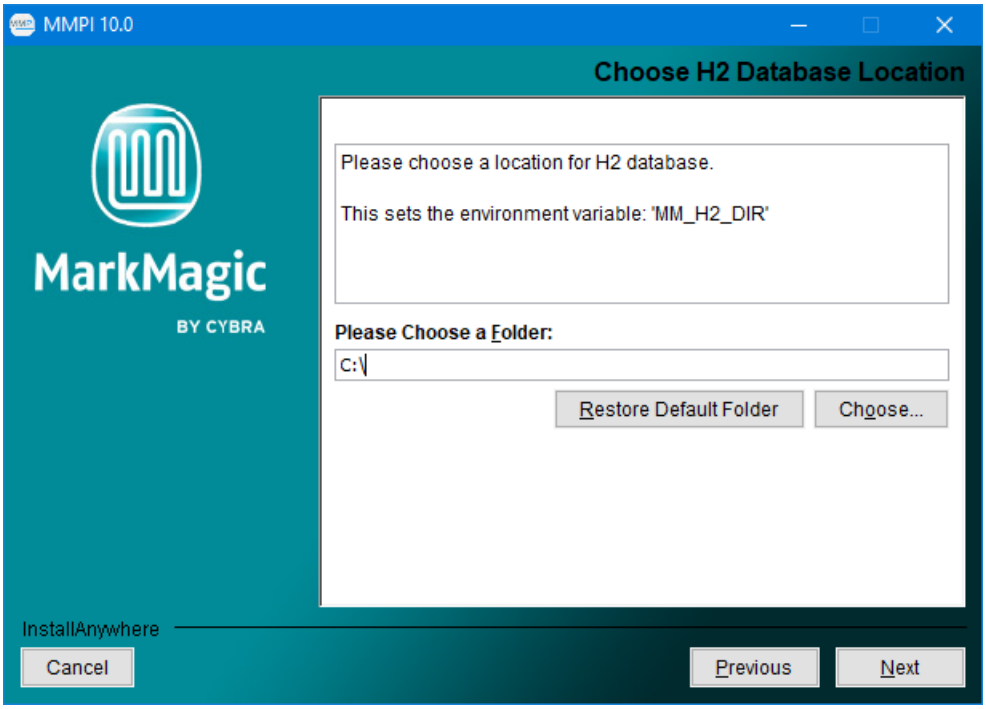


Proceed through the initial screens and you will be asked for the destination folder where MarkMagic PI 10.0 will be installed.

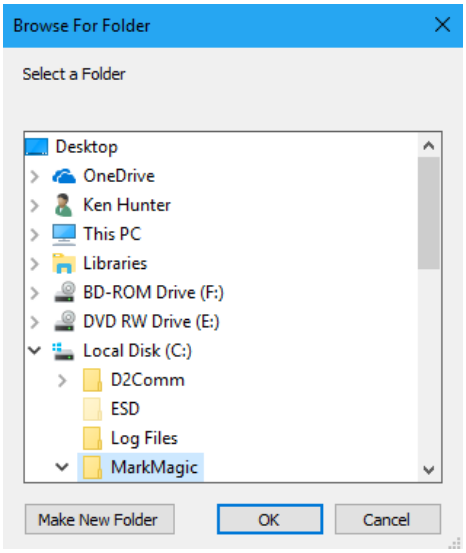


You can choose to keep it as the default path or provide your own custom path. This is the location where the core MarkMagic PI server files will be installed. Proceed to the next step…

You will be asked to set the path for the location of the H2 Database.

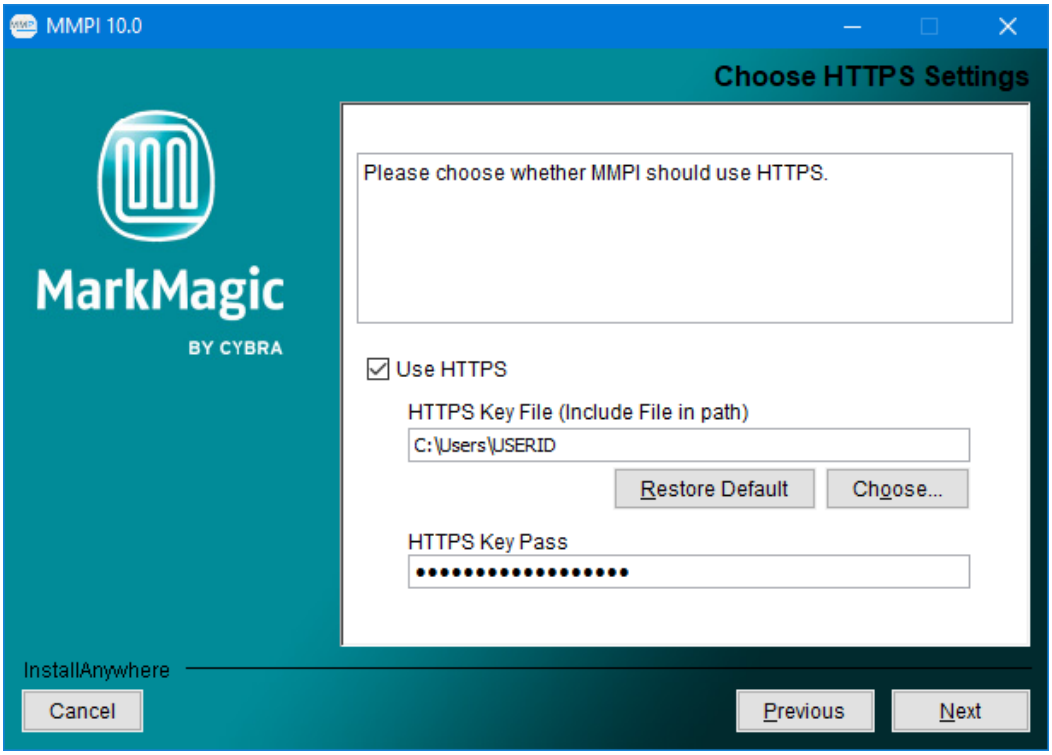


The path you choose here will set the Windows 'MM_H2_DIR' environment variable. This location can be anywhere on the local drive. In fact, it is recommended to click the ***Choose…*** button and create your own folder to store the H2 database. For example, C:\MarkMagic.



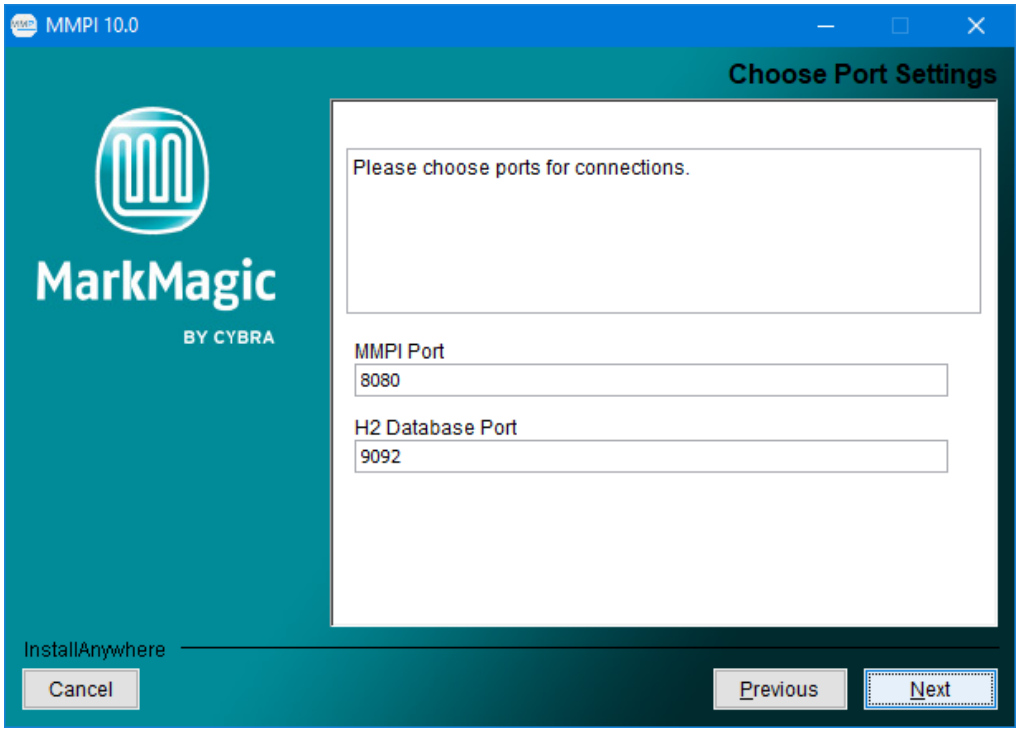
When the MMPI server starts for the first time, it will create a fresh MarkMagic.h2.db file in this location. Think of this path as the main MarkMagic PI Data folder. Logs, fonts, print queues, etc. will all be created and stored here.

Proceed to the next step where you can choose to configure HTTPS if it is a requirement in your network environment…



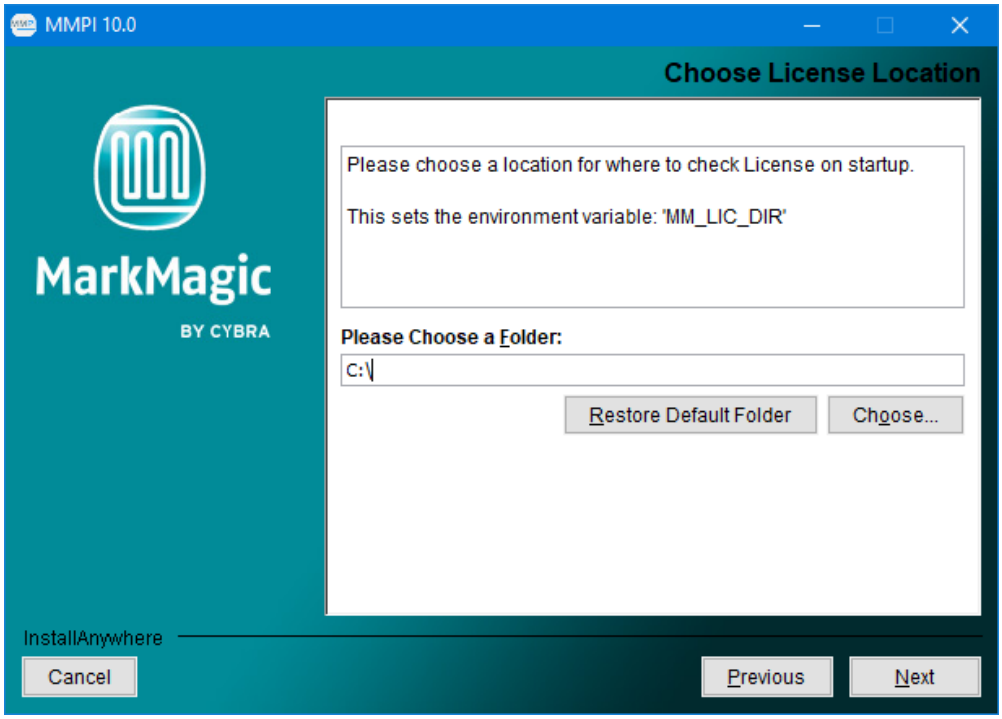
If you do not wish to use HTTPS, then skip this step. If you do plan to use HTTPS, enable the check box. Set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

Also, on this screen, provide your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)
Click 'Next' and you will be asked to configure the MMPI default ports…

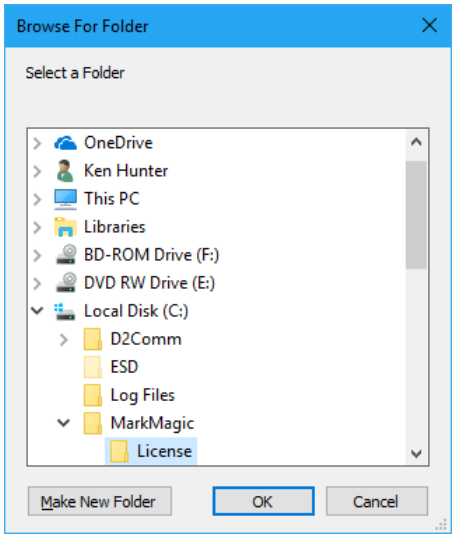


Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different port here. Though, in a typical MarkMagic PI installation, these values can be kept as the default.

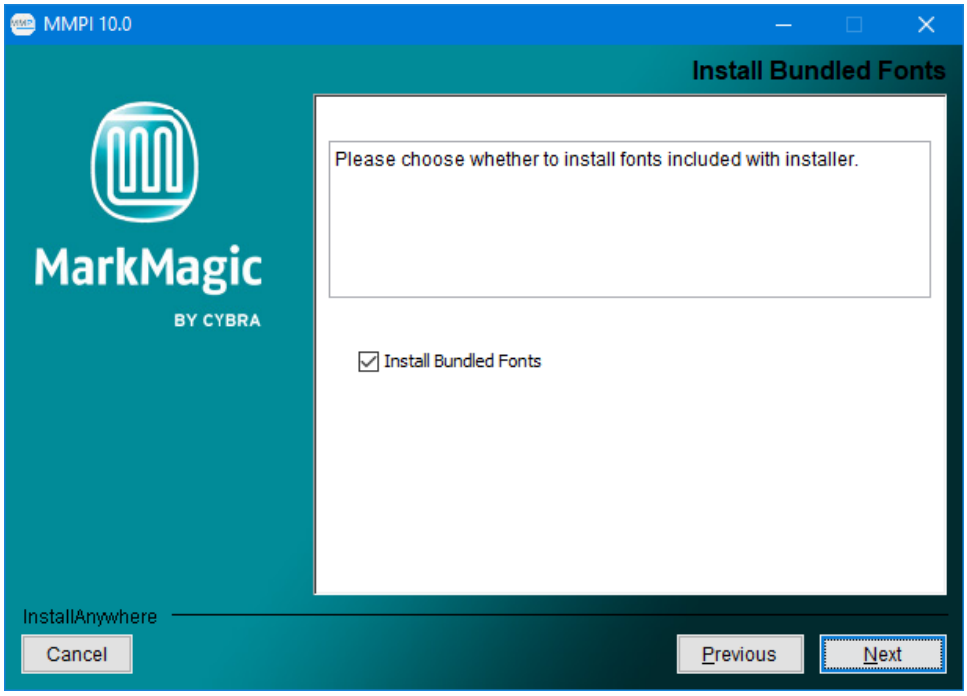
Proceed to the next step where you can define where MarkMagic PI will search for license files…



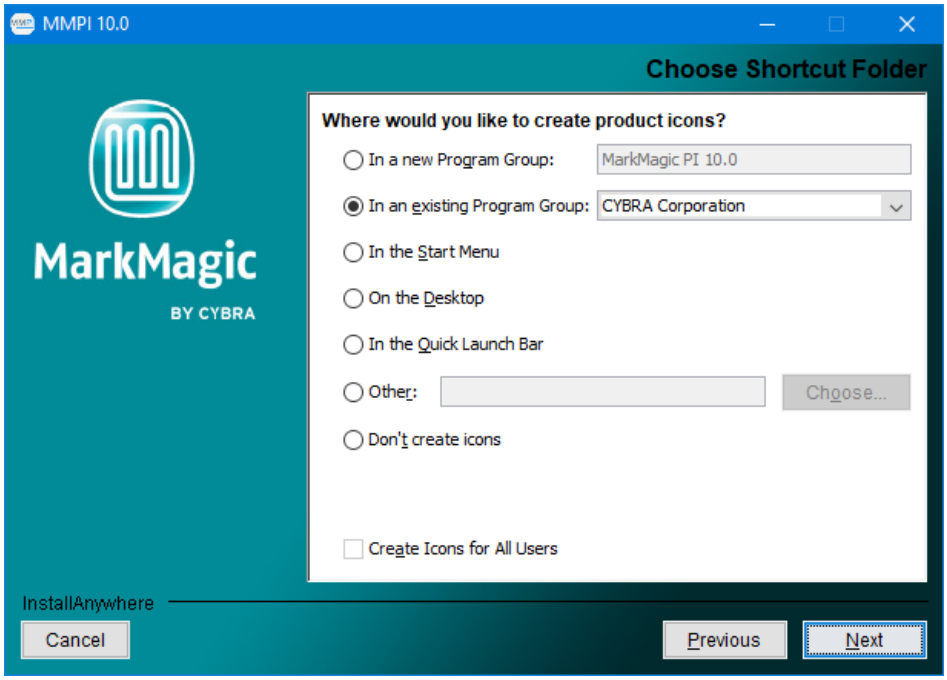
The path you choose here will set the Windows 'MM_LIC_DIR' environment variable. MarkMagic PI has a feature where, upon server startup, it can automatically detect and load license files. This is the path where MarkMagic PI will look for the license files. Though this location can be anywhere on the local drive, we have found it best to keep all MarkMagic related folders within the 'MM_H2_DIR' path, so something like **C:\MarkMagic\License** would work nicely.



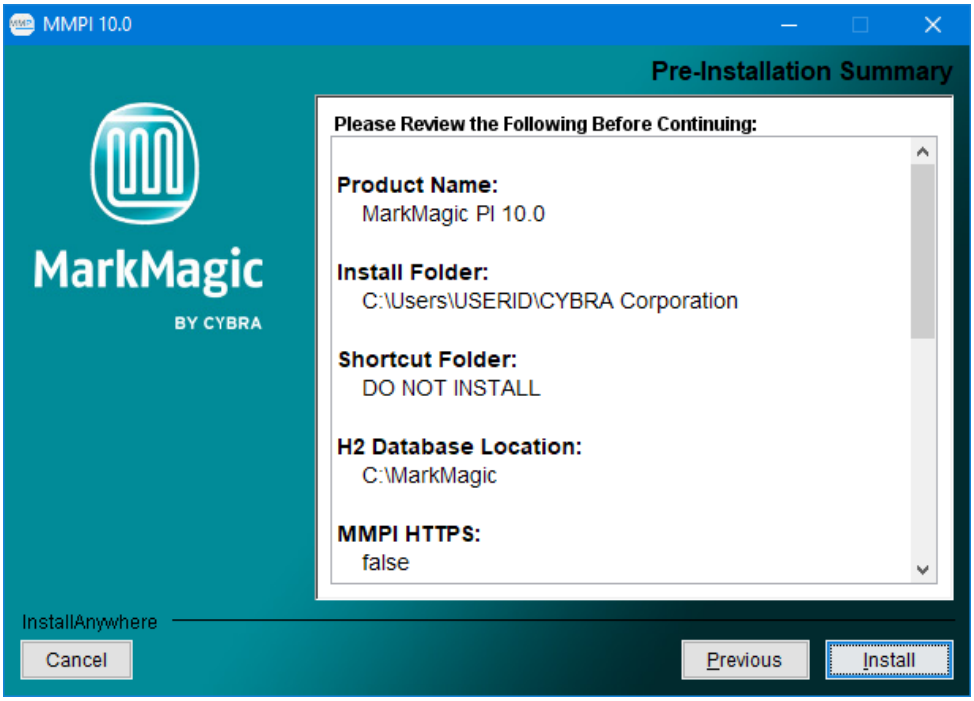
Click next and you will be asked if you wish to install the bundled fonts. This is very import if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option checked.



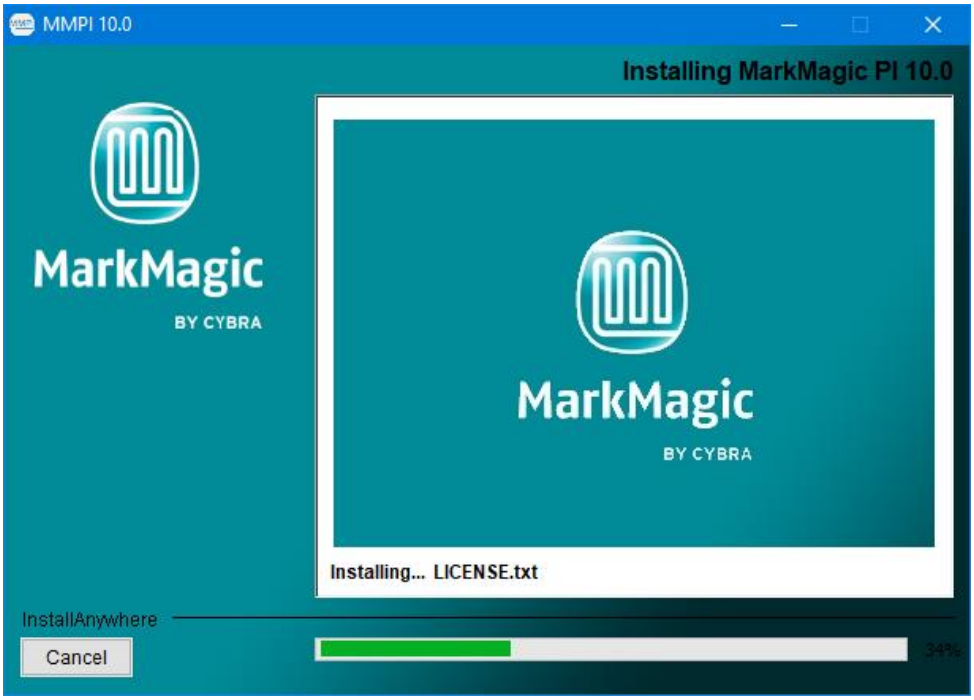
Click next and you can choose where Start Menu links and program shortcuts will be placed…

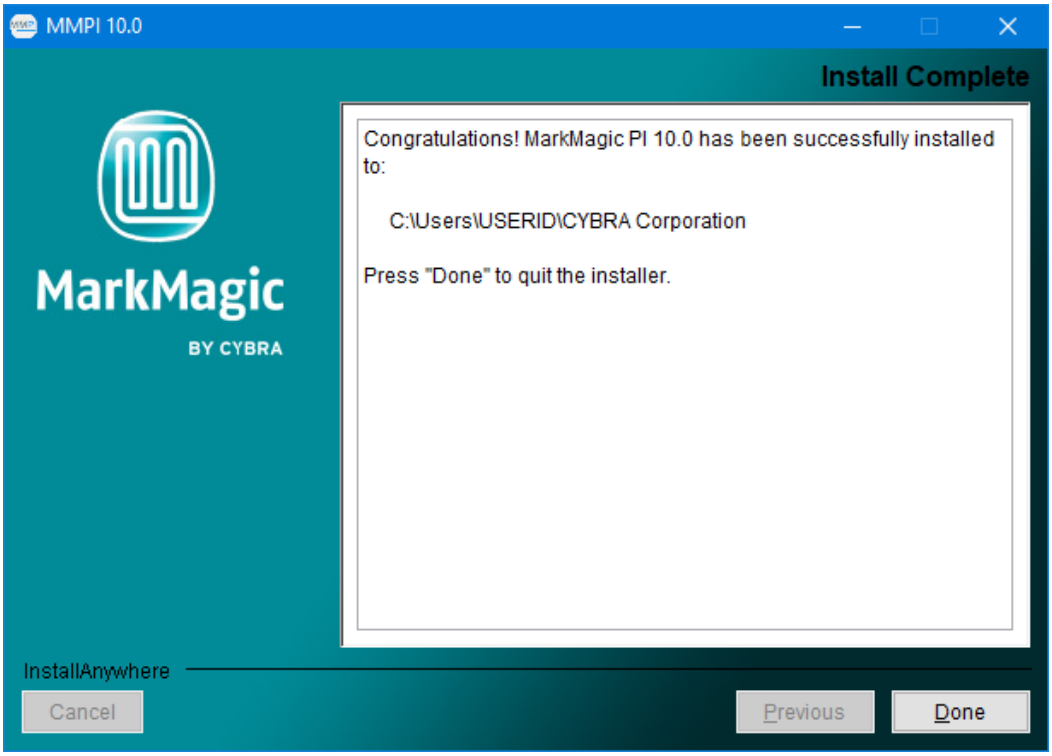


Your choice here is up to you. After making your decision, click next and you will be brought to the installation overview…



Click Install to install MarkMagic PI!





MarkMagic PI is now installed! Click Done to exit the installer. You can move to the next section of the install guide where we will discuss starting, connecting to, and managing the MarkMagic PI server.

MarkMagic PI Linux Installation

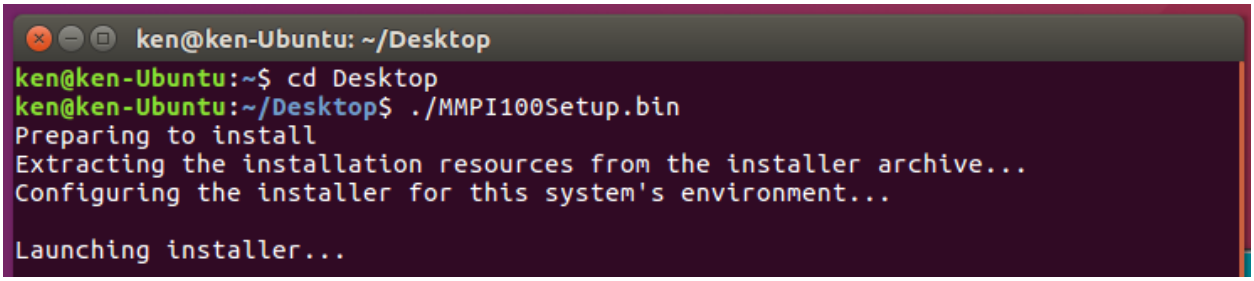
MMPI Install in a Graphical Desktop Environment:

Follow these steps if your Linux OS uses a graphical window manager. Full command line installation instructions are provided later in the guide.

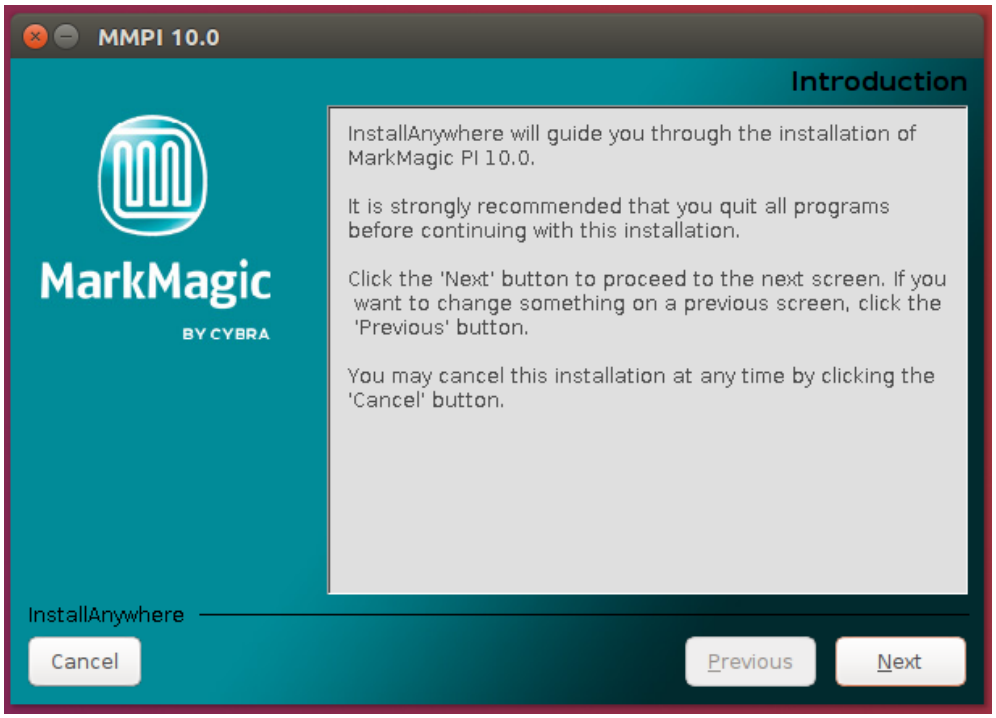
Open a terminal session and then navigate to the directory where you downloaded the MMPI Linux installer BIN file from www.CYBRA.com.

Run the MMPI installer using the command:

`./MMPI100Setup.bin`



Welcome to the MarkMagic PI 10.0 Linux Installer:



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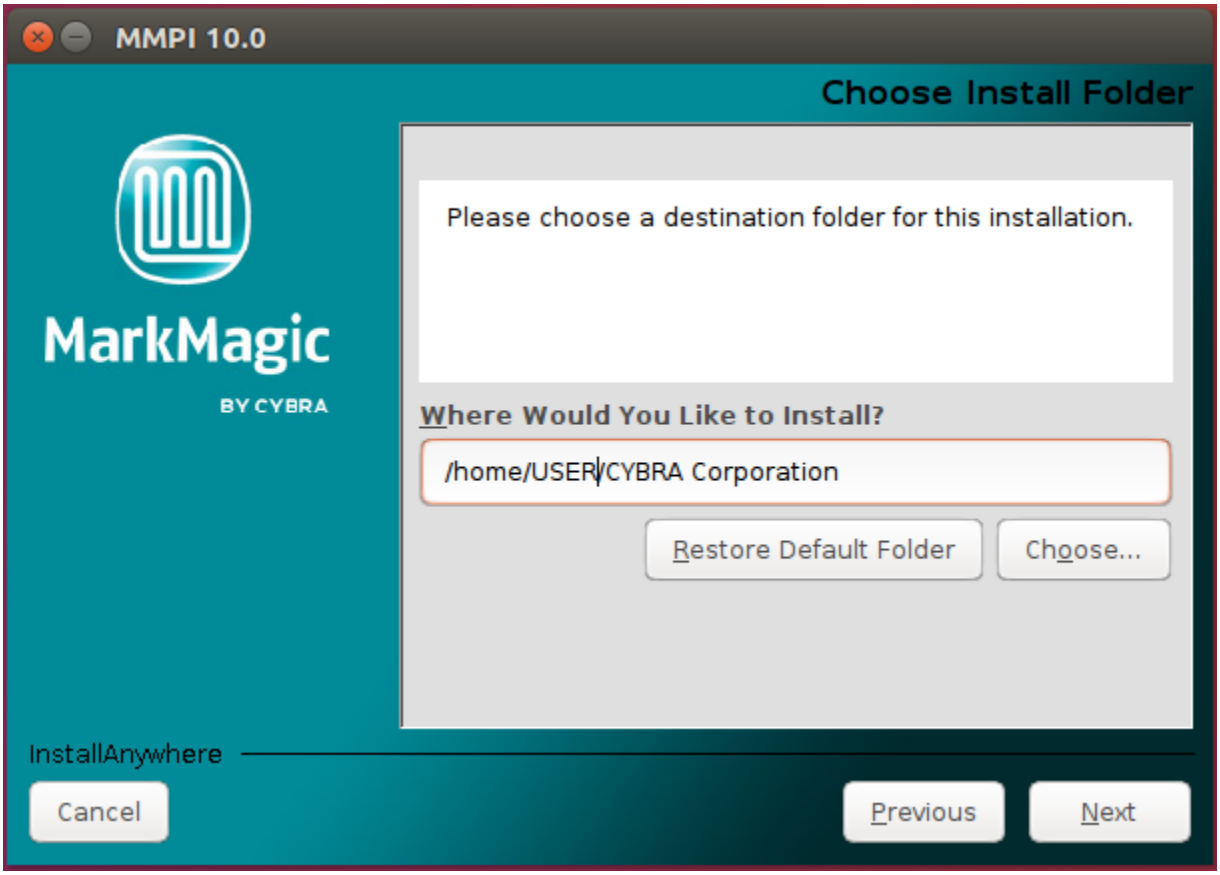

You can choose to keep it as the default path or provide your own custom path. This is the location where the core MarkMagic PI server files will be installed. Proceed to the next step…

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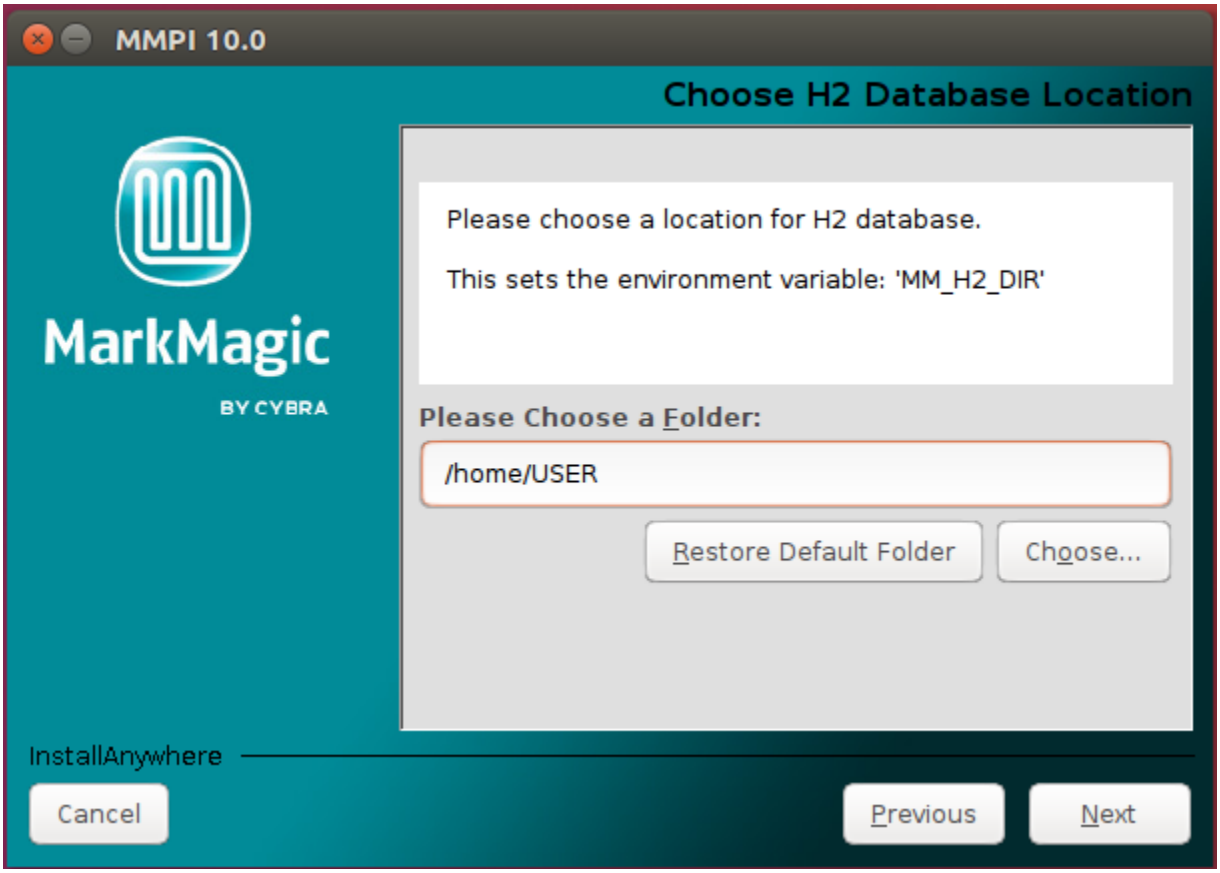
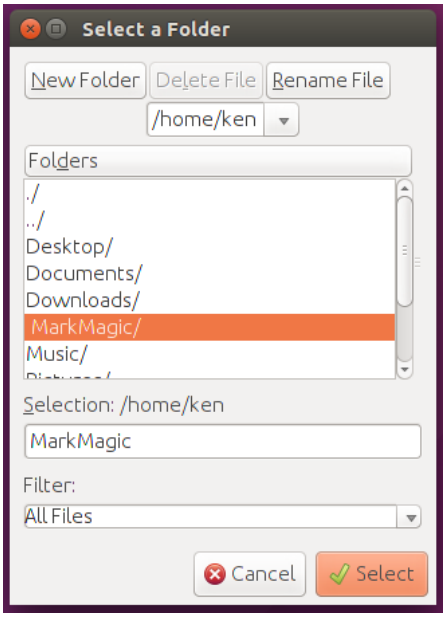


The path you choose here will set the Linux 'MM_H2_DIR' environment variable. This location can be anywhere on the local drive. In fact, it is recommended to click the ***Choose…*** button and create your own folder to store the H2 database.



In this example, we are using:
/home/USERNAME/MarkMagic

When the MMPI server starts for the first time, it will create a fresh MarkMagic.h2.db file in this location. Think of this path as the main MarkMagic PI Data folder. Logs, fonts, print queues, etc. will all be created and stored here.

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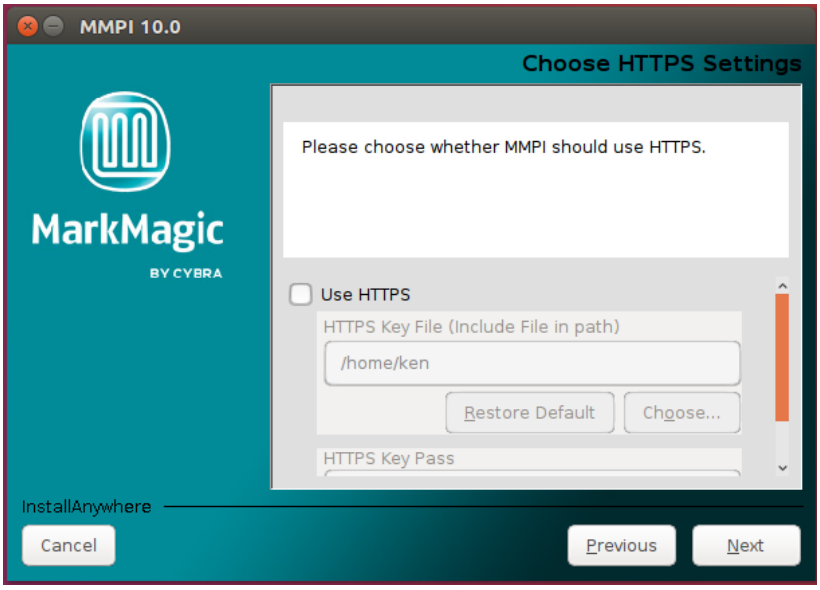
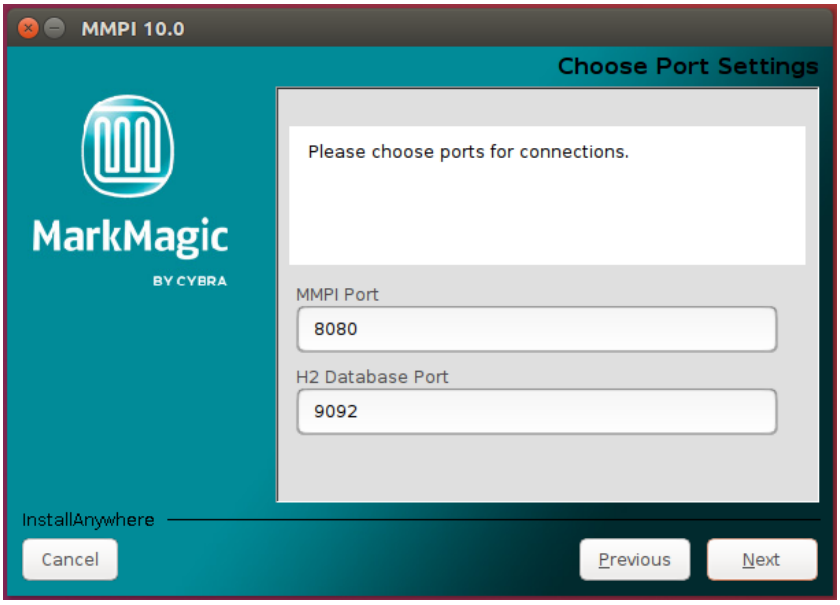


If you do not wish to use HTTPS, then skip this step. If you do plan to use HTTPS, enable the check box. Set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

Also, on this screen, provide your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)

Click 'Next' and you will be asked to configure the MMPI default ports…



Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different port here. In a typical MarkMagic PI installation, these values can be kept as the default.

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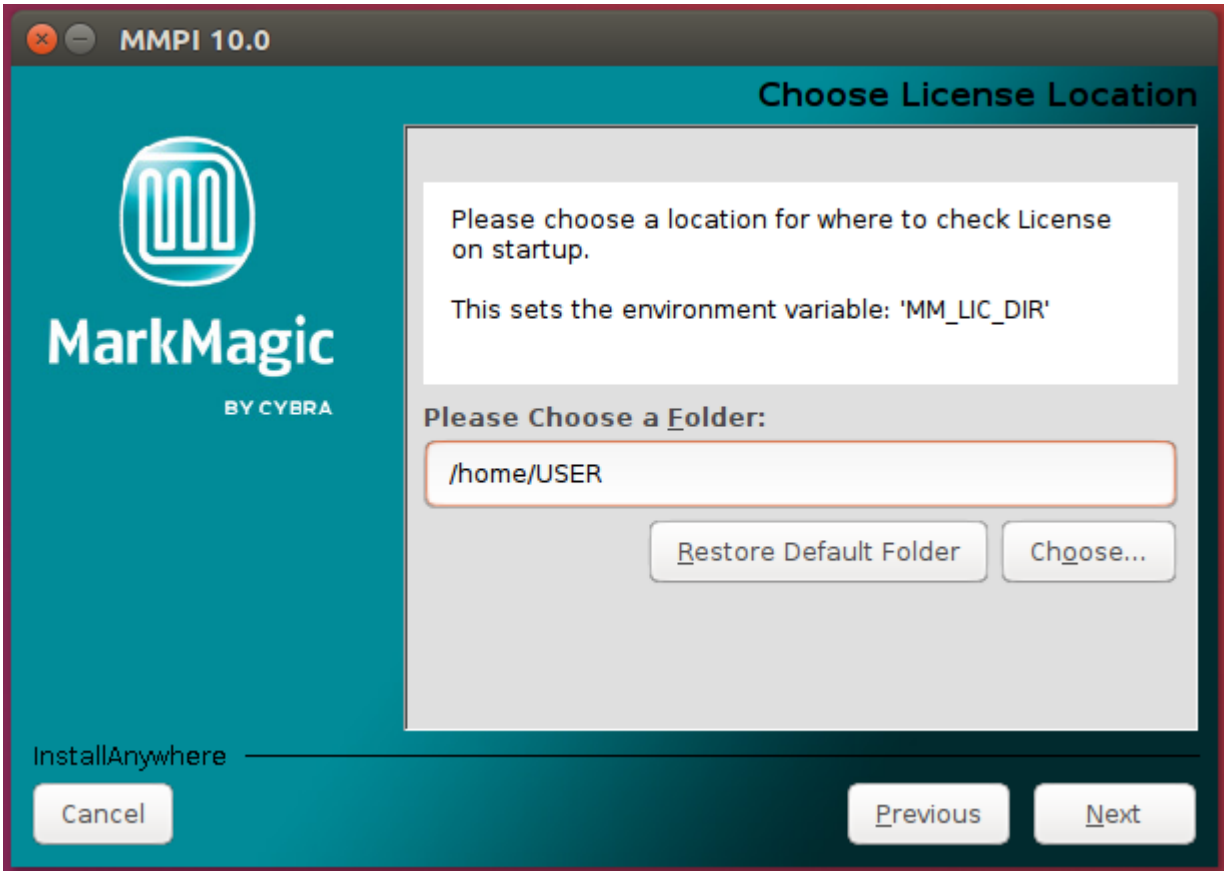

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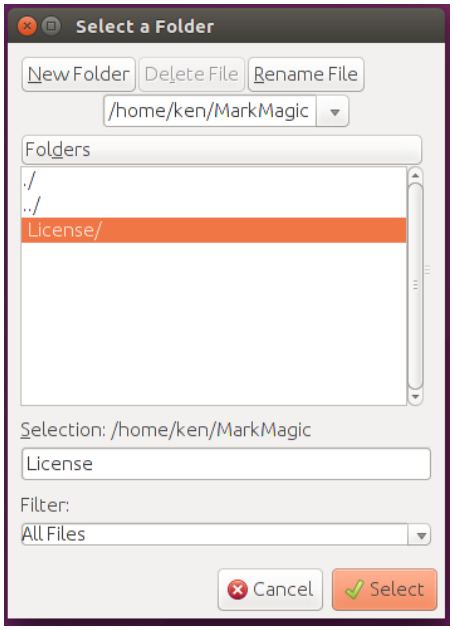
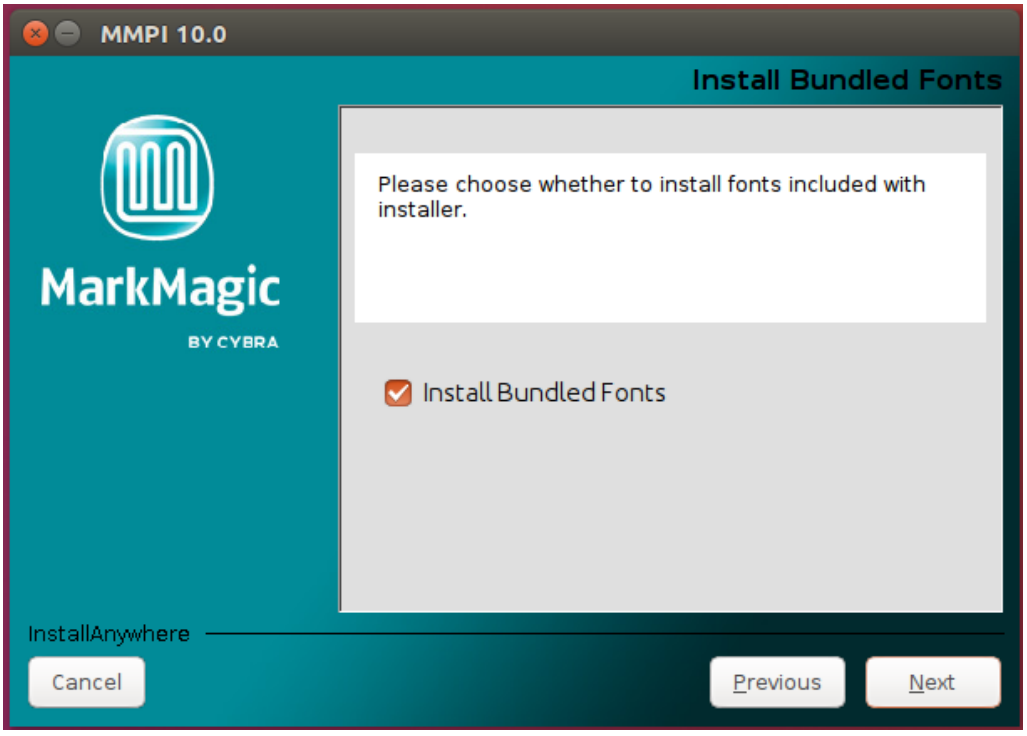
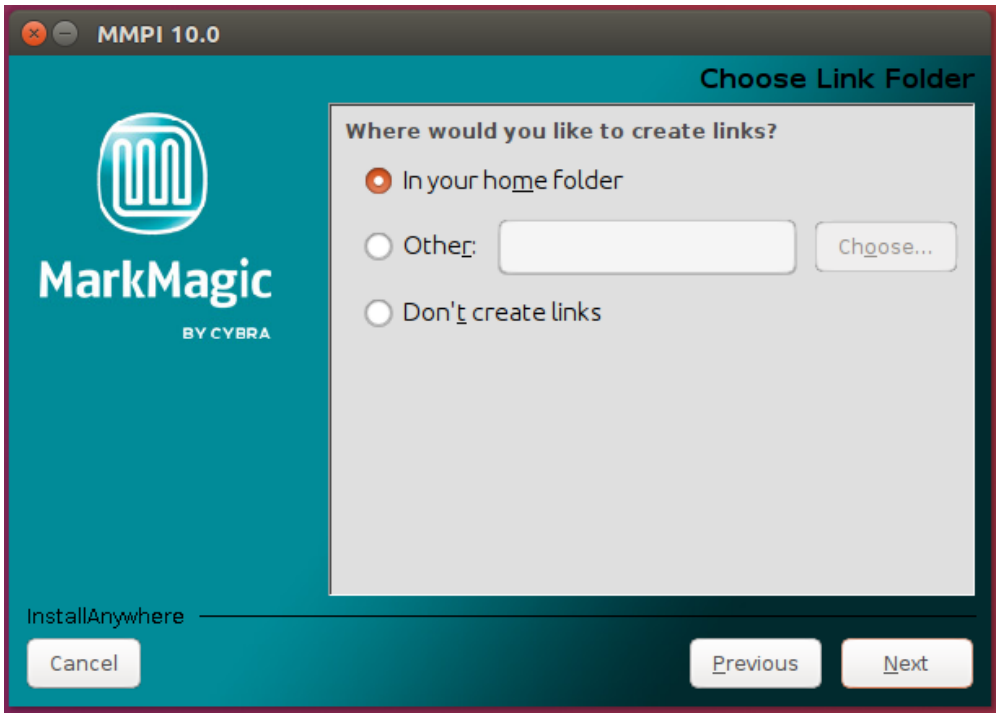


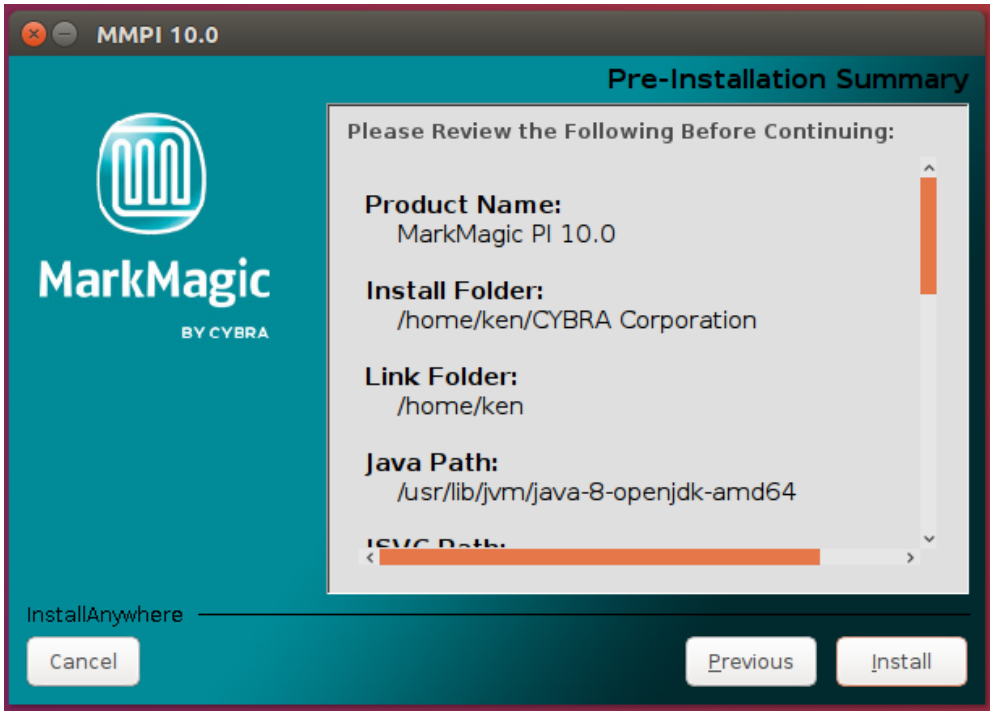
Click next and you will be asked if you wish to install the bundled fonts. This is very import if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option checked.



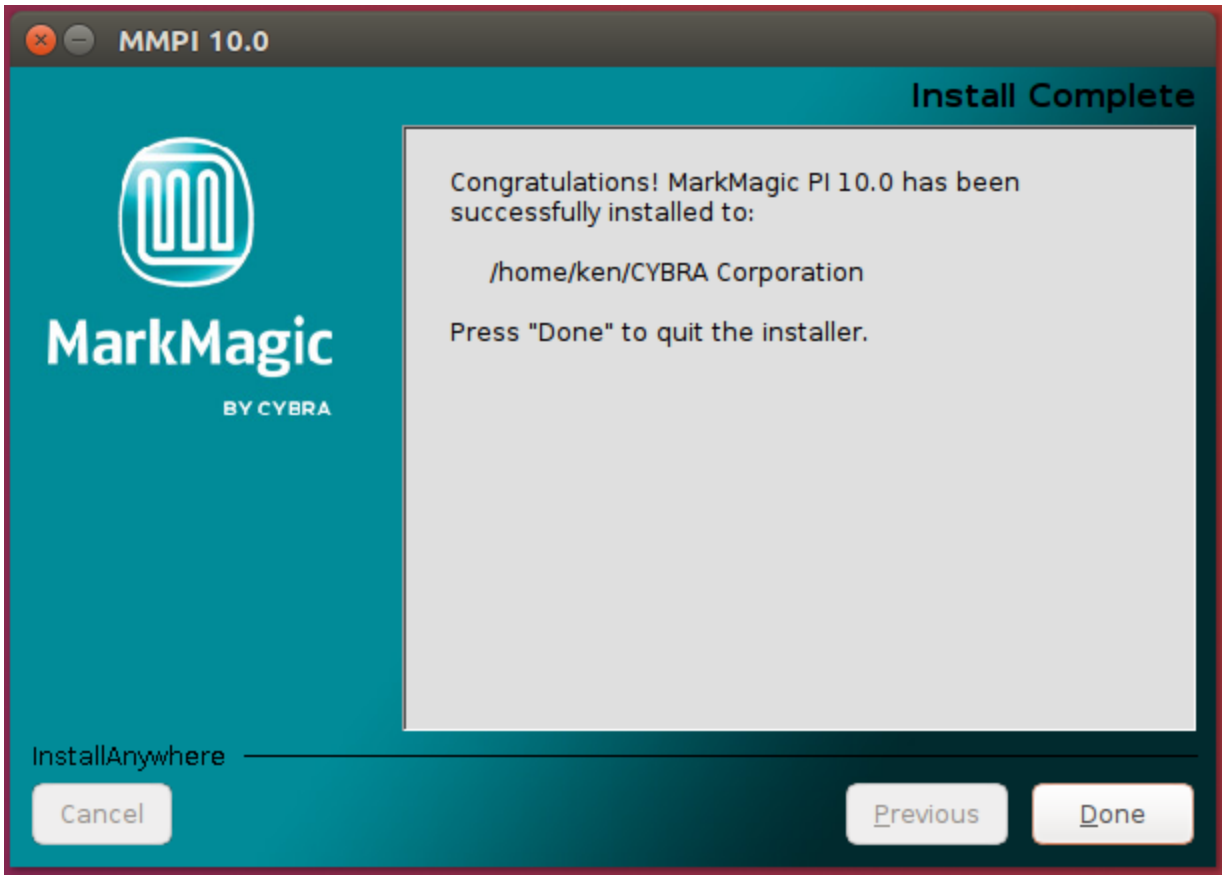
Click next and you can choose where program shortcuts will be placed…



Your choice here is up to you. After making your decision, click next and you will be brought to the installation overview…



Click Install to install MarkMagic PI 10.0!



MarkMagic PI 10.0 is now installed! Click Done to exit the installer. You can move to the next section of the install guide where we will discuss starting, connecting to, and managing the MarkMagic PI server.

MMPI Install in a Command Line Environment:

Follow these steps if your Linux OS **does not** use a graphical window manager. Full GUI installation instructions are provided earlier in the guide.

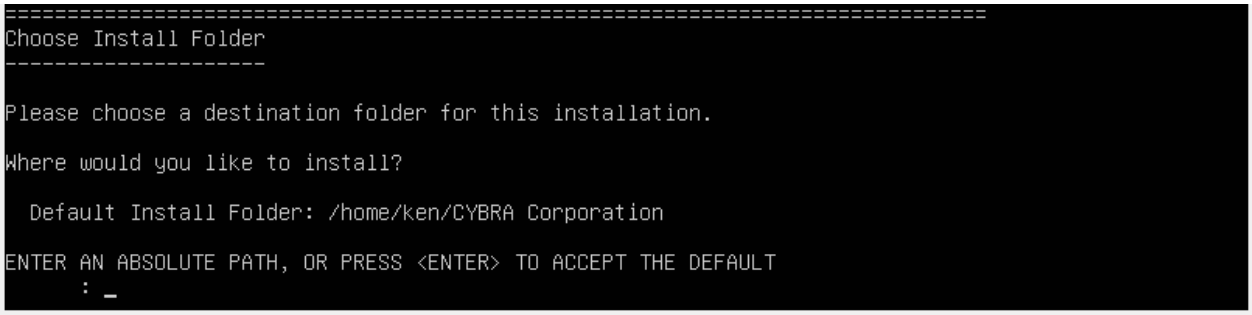
Navigate to the directory where you downloaded the MMPI Linux Standalone installer BIN file from www.CYBRA.com.

Run the MMPI installer using the command:

./MMPI100Setup.bin

```
ken@ken-Ubuntu:~/Desktop$ ./MMPI100Setup.bin
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...


Graphical installers are not supported by the VM. The console mode will be used instead...

===============================================================================
MarkMagic PI 10.0                                (created with InstallAnywhere)
-------------------------------------------------------------------------------

Preparing CONSOLE Mode Installation...




===============================================================================
Introduction
------------

InstallAnywhere will guide you through the installation of MarkMagic PI 10.0.

It is strongly recommended that you quit all programs before continuing with
this installation.

Respond to each prompt to proceed to the next step in the installation.  If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:
```

Press ENTER to continue through the initial sections and you will be asked for the destination folder where MarkMagic PI 10.0 will be installed.



You can choose to keep it as the default path or provide your own custom path. This is the location where the core MarkMagic PI server files will be installed. Proceed to the next step…

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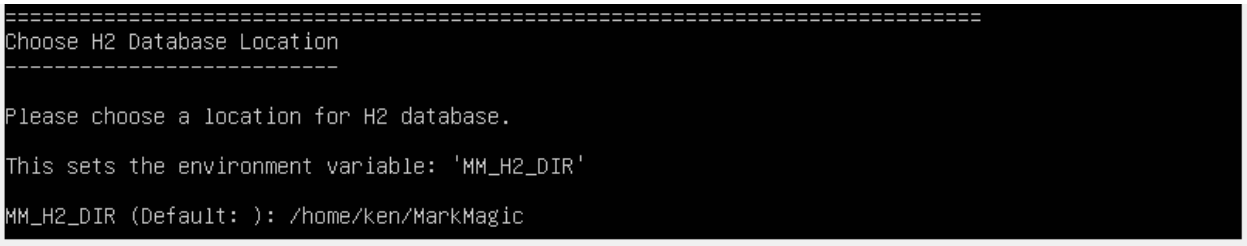


The path you choose here will set the Linux 'MM_H2_DIR' environment variable. This location can be anywhere on the local drive. In fact, it is recommended to click the ***Choose…*** button and create your own folder to store the H2 database.

In this example, we are using: **/home/USERNAME/MarkMagic**

When the MMPI server starts for the first time, it will create a fresh MarkMagic.h2.db file in this location. Think of this path as the main MarkMagic PI Data folder. Logs, fonts, print queues, etc. will all be created and stored here.

Proceed to the next step where you can choose to configure HTTPS if it is a requirement in your network environment…

If you do not wish to use HTTPS, then leave the option set to false. If you do plan to use HTTPS, choose 1 for true and set the path to where you keep your HTTPS Key File. (Consult your system administrator if you do not know what this is.)

You will also be asked to provide the path to your HTTPS Key Pass. (Consult your system administrator if you do not know what this is.)

Proceed and you will be asked to configure the MMPI default ports…

Only in certain unique network environments would you need to change these port values from their default. For example, if you plan to run two instances of Apache Tomcat on the same server, you might need to specify a different MMPI port here. In a typical MarkMagic PI installation, these values can be kept as the default.

Proceed to the next step where you can define where MarkMagic PI will search for license files…

The path you choose here will set the Linux 'MM_LIC_DIR' environment variable. MarkMagic PI has a feature where, upon server startup, it can automatically detect and load license files. This is the path where MarkMagic PI will look for the license files. Though this location can be anywhere on the local drive, we have found it best to keep all MarkMagic related folders within the 'MM_H2_DIR' path, so something like **/home/USERNAME/MarkMagic/License** would work nicely.
Press enter to accept your choice and you will be asked if you wish to install the bundled fonts. This is very import if you plan to use MarkMagic PI to create PDF output. It is recommended to leave this option set to true.

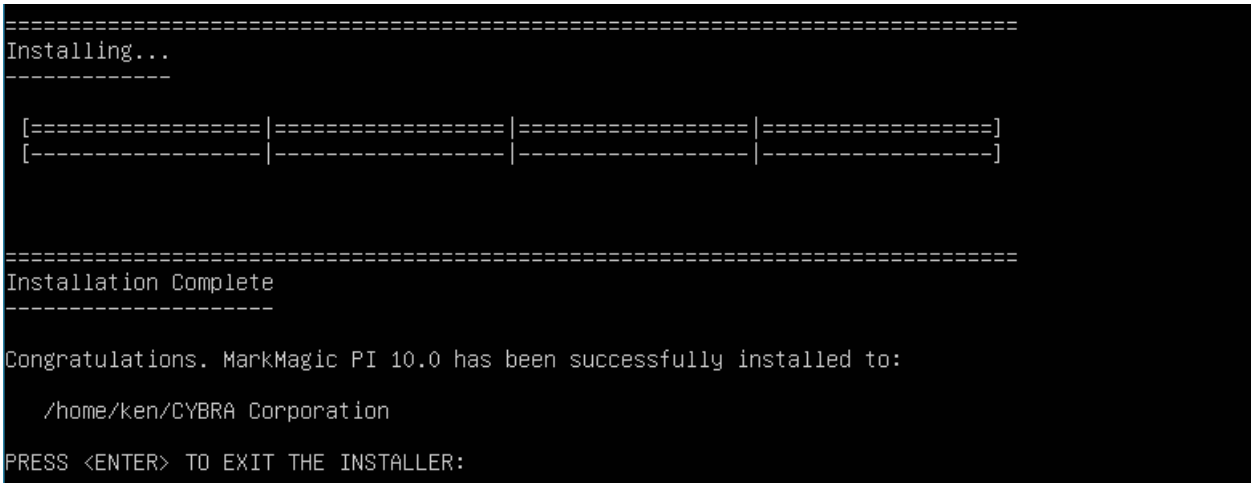
Proceed to the next step and choose where program shortcuts will be placed…

```
================================================================================
Choose Link Location
--------------------

Where would you like to create links?

  ->1- Default: /home/ken
    2- In your home folder
    3- Choose another location...

    4- Don't create links

ENTER THE NUMBER OF AN OPTION ABOVE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
      : _
```

Your choice here is up to you. After making your decision, click next and you will be brought to the installation overview…

```
Install Folder:
    /home/ken/CYBRA Corporation

Link Folder:
    DO NOT INSTALL

Java Path:
    /usr/lib/jvm/java-8-openjdk-amd64

JSVC Path:
    /usr/bin/jsvc

H2 Database Location:
    /home/ken/MarkMagic

MMPI HTTPS:
    false

HTTPS Key File:


MMPI Port:
    8080

H2 Database Port:
    9092

License Location:
    /home/ken/MarkMagic/License

Disk Space Information (for Installation Target):
    Required:  124,903,999 Bytes
    Available: 27,020,095,488 Bytes

PRESS <ENTER> TO CONTINUE: _
```

Press Enter to install MarkMagic PI 10.0!



MarkMagic PI is now installed! Press Enter to exit the installer. You can move to the next section of the install guide where we will discuss starting, connecting to, and managing the MarkMagic PI server.

MMPI Linux "Silent" Install:

For system integrators that require quick deployment of an MMPI installation, there is one final option for installing MMPI called the silent method. This installation procedure requires no user input and can be customized for your environment using a special properties file. Please contact CYBRA Support help@cybra.com for more information about this installation method.

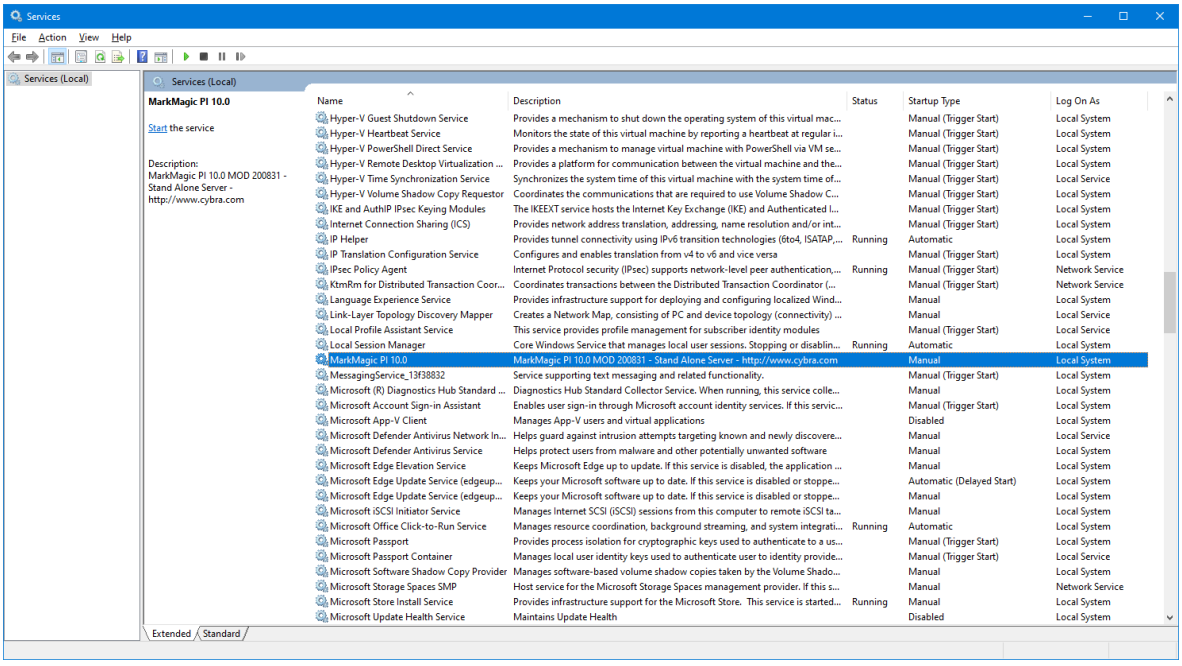
C. Starting and Stopping the MarkMagic PI Service

MarkMagic PI now runs as its own service rather than requiring the use of a separate installation of Apache Tomcat. You can start and stop MarkMagic PI like you would any other service that might be installed on your PC or server. The methods for doing so are different depending on the OS you installed MarkMagic PI on. This section of the guide will describe how to start and stop the MMPI service in Windows and Linux.

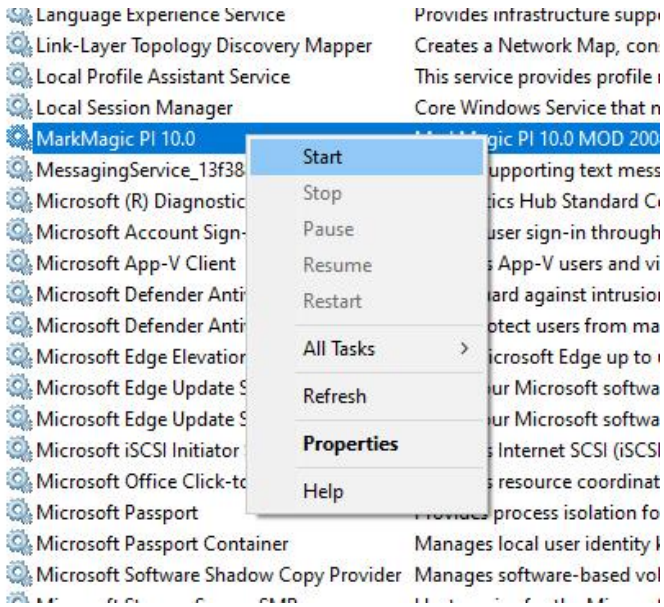
Starting and Stopping the MarkMagic PI Service in Microsoft Windows

Open the Windows Services GUI by searching for 'services' in the start menu search bar or by going to Start >> Run >> **services.msc**

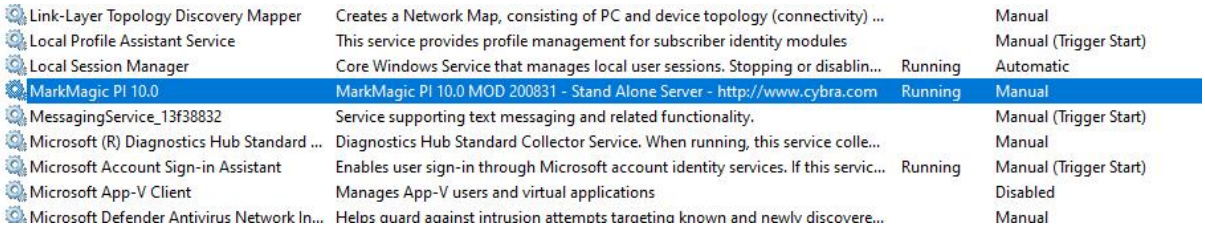
Find MarkMagic PI 10.0 in the list.



Right click MarkMagic PI 10.0 and choose ‘Start’:



You should see the service listed as “Running”:



The MarkMagic PI server is now active! We will discuss connecting to and applying a license to your new MarkMagic PI installation later in this guide.

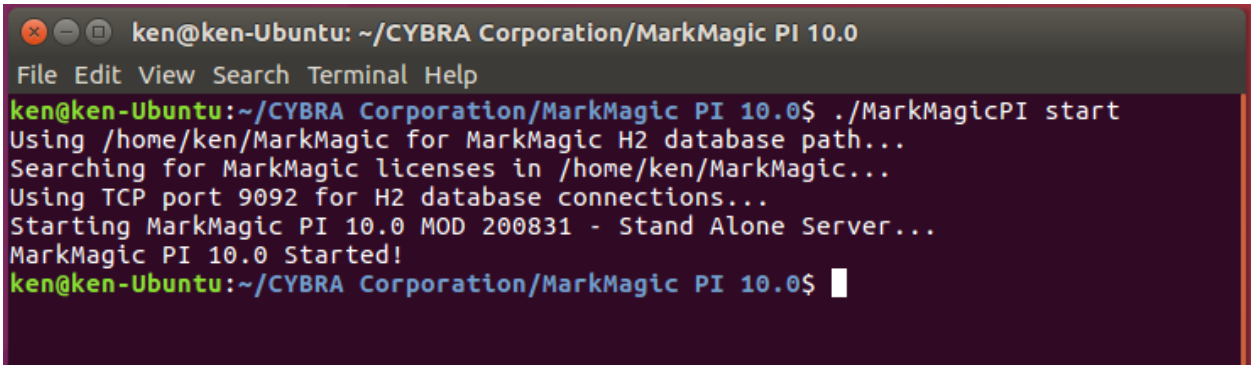
To stop the MarkMagic PI server, simply follow the same steps used for starting the server, except choose ‘Stop’ on the right click menu.

Starting and Stopping the MarkMagic PI Service in Linux

Open a terminal session and then navigate to the directory where you installed MarkMagic PI.

Start the MMPI service by issuing this command:

./MarkMagicPI start



Notice that the startup procedure lists the various paths and H2 port that were configured during the installation. It is referencing the environment variables, so if the information is correct here, you know that the installation set the variables correctly.

The MarkMagic PI server is now active! We will discuss connecting to and applying a license to your new MarkMagic PI installation later in this guide.

To stop the MarkMagic PI server, simply follow the same steps used for starting the server, except run the command:

./MarkMagicPI stop

D. Connect to the MMPI Web App

Once the MarkMagic PI service is started, you are ready to connect to MMPI with a web browser.

Enter the following URL:

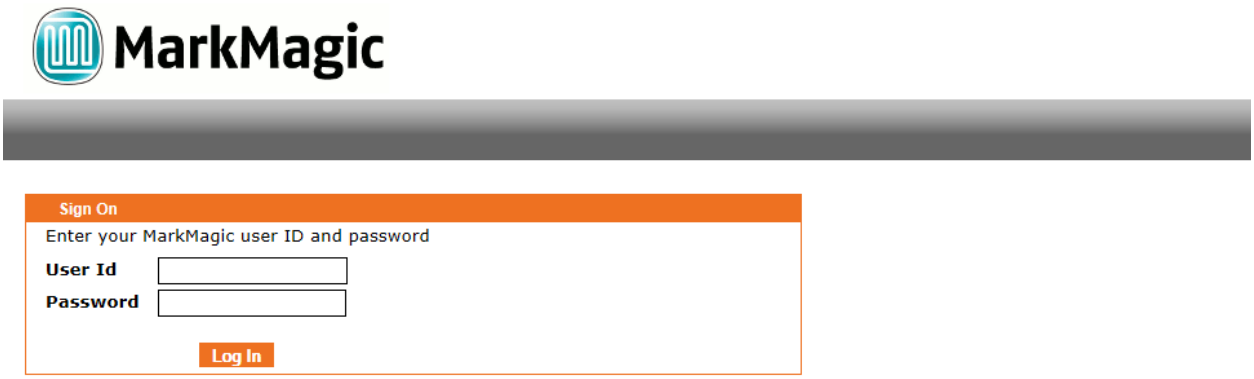
http://localhost:8080/MMPI/

If you are connecting to MMPI from a different system on the same network, you would need to change localhost with the IP address of the Machine that it was installed on.

http://xxx.xxx.xxx.xxx:8080/MMPI/

You should be presented with sign on screen for MMPI where you can use the default credentials below to sign in.

User ID: MMADMIN
Password: mmadmin



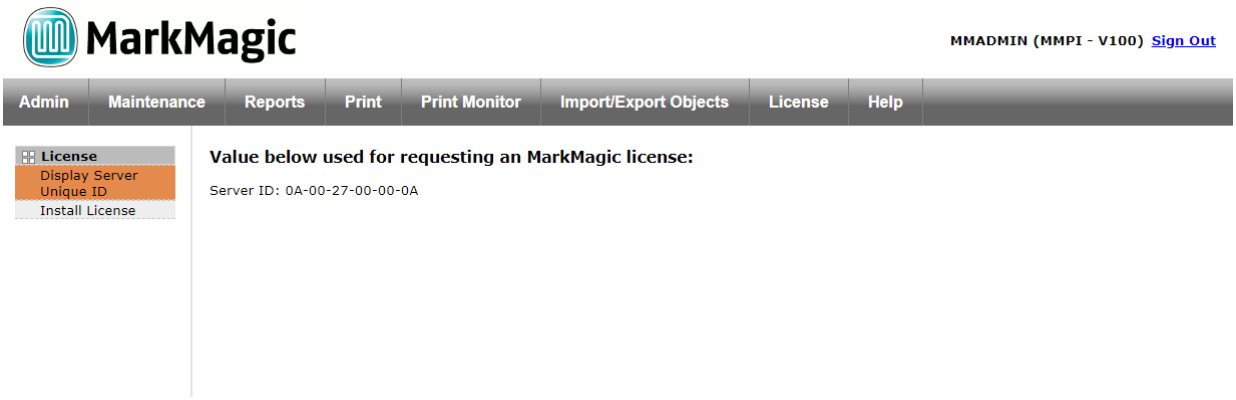
Proceed to Section E for applying your MMPI license and Section F for installing JMagic.

E. Applying the License

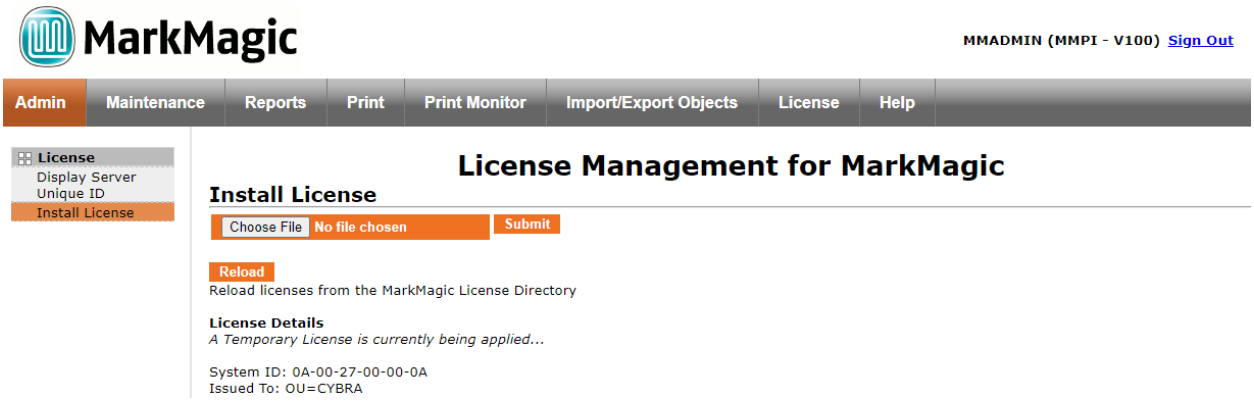
If this is new install or you upgraded to a new version of MarkMagic PI (Example 9.5 -> 10.0), a new license key will be required.

Once signed into the system, you will need to apply the license file given to you by CYBRA.

In order to get a license from CYBRA, you will need to provide your MAC address for the system that the MarkMagic PI server is installed on. The license will be emailed to you in the form of a *.*lic* file. In the MMPI Web Application, navigate to the **License** option. You will then see more options displayed on the left of the screen below the grey bar. Click on the **Display Server Unique ID** if you need to get your MAC address.



Click on the **Install License** button. This is where you can apply your new license. Click the "Browse" button, select the file that was given to you by CYBRA and then click "Submit". Once the license is submitted and accepted, you will see all of the license specific details populated on the page. It will list the license type, and expiration dates, and any addon options you may also be licensed for.



Your license is now installed and you are ready to use MarkMagic PI 10.0!

F. JMagic 10.0 Installation

You can load JMagic 10 on *any* PC running Windows NT, 2000, XP, Vista, Windows 7, Windows 8 and Windows 10.

Minimum Hardware Requirements:

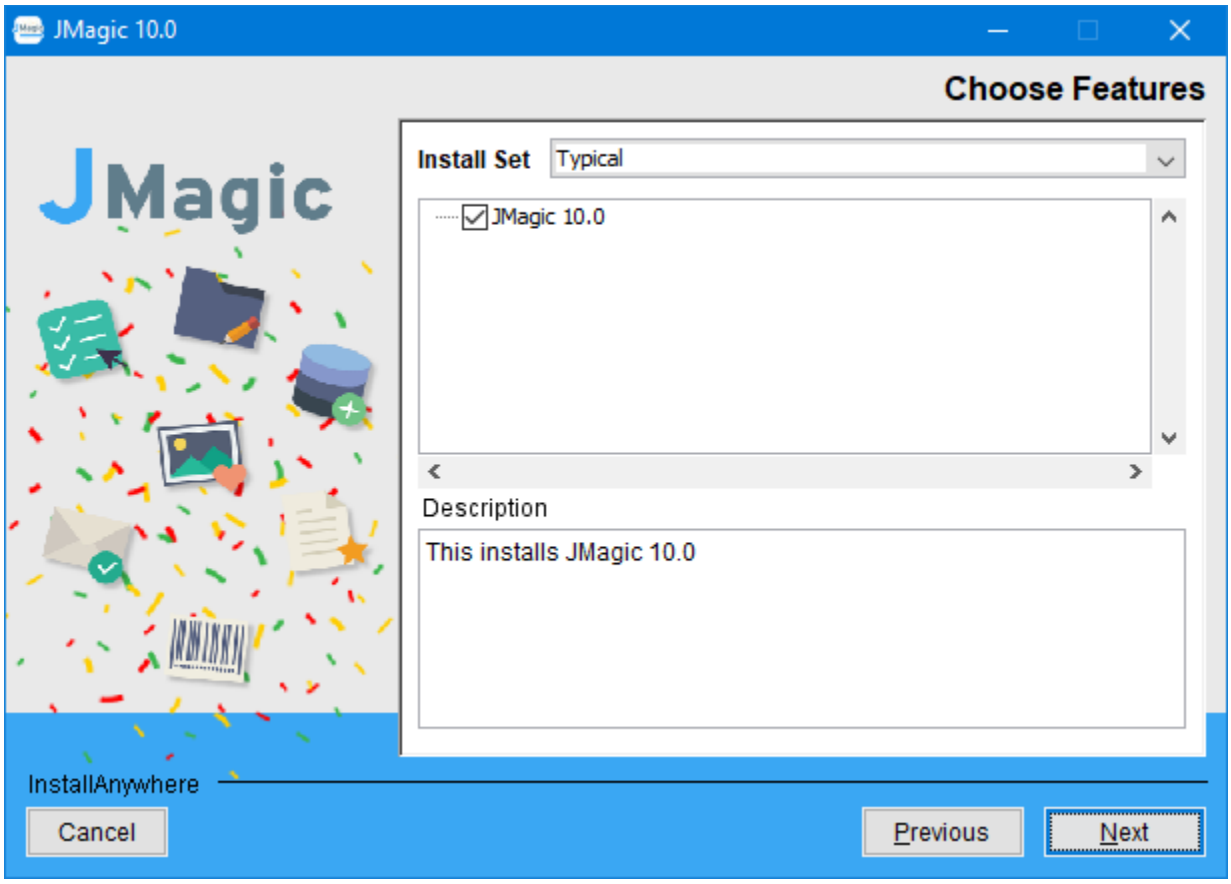
Processor	1.5 GHz Intel Pentium IV, or higher
Display	SVGA, 1152x864 (recommended minimum resolution)
Memory requirements	512MB RAM
Disk space requirements	150 MB for JMagic 70 MB for Java Virtual Machine

Note: To use JMagic 10.0, MarkMagic PI version 10.0 must be active.

Download the JMagic10 install zip file from CYBRA's website and extract the enclosed file to a temporary subdirectory.

Double click the JMagic10Setup.exe file within to launch the JMagic InstallShield Wizard and follow the prompts.

JMagic Installation



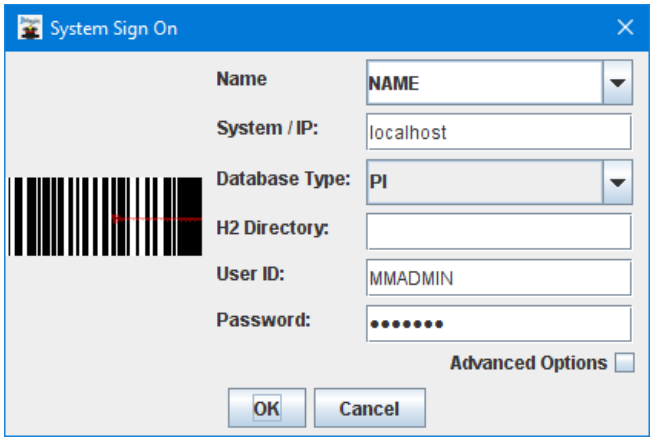
The wizard will prompt you to select an existing subdirectory, or create a default product destination subdirectory, for example: *"X":\Program Files\CYBRA Corporation\JMagic 10.0.* (Where "X" is your drive letter) as well as the Follow the steps to complete the installation.

Default Install Log Location: "X":*CYBRA Corporation\JMagic 10.0\Uninstall_JMagic 10.0\Logs*

Navigate to the Start menu Programs folder, then CYBRA Corporation, and then click on the icon "JMagic 10.0" to start JMagic. Sign on to the MMPI System (localhost or MMPI server IP address) to initiate communications with MarkMagic 10.0.

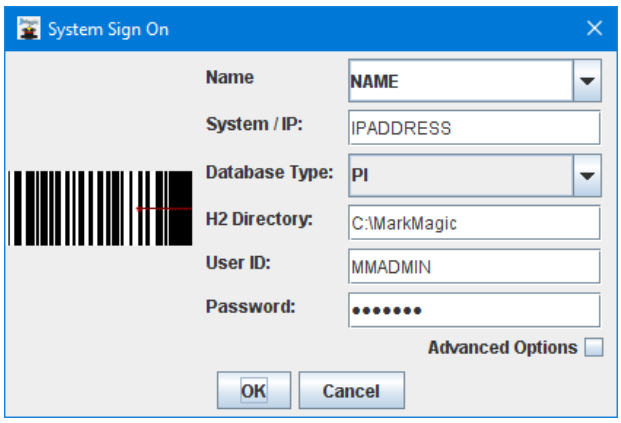
Starting JMagic

If you are connecting to an installation of MMPI that is running on the same system as the one you have JMagic installed on, then you can simply put `localhost` for the "System/IP:" parameter at logon. You can also provide a custom name for your connection so that you can quickly recall the connection settings the next time you start JMagic.



MMPI ships with two default user IDs/PWs mmadmin/mmadmin and mmuser/mmuser. We recommend a system admin create/edit user accounts for their organization via the MMPI Web admin interface.

If you are trying to connect to an installation of MMPI that is on a different machine than the one you are running JMagic on, then you need to specify the IP ADDRESS of the server where MMPI is installed as well as the path to the H2 database on that server.



Click OK to sign on to JMagic 10.0 and connect to the MMPI server.

MarkMagic Support :
914-963-6600 Option 4
• Fax: 716-712-0666 •
help@CYBRA.com

We identify with success.