

# **Galileo Print Manager**

**.NET**

## **Installation Guide & User Manual**



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**Notes About Examples**

All screen examples and other inserts associated with system output are provided for illustration purposes only. They are provided as illustrative examples of system functionality and are not meant to represent actual screen responses, rates, etc.

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## Introduction

### Galileo Print Manager .NET Installation

The file "GPM.NET.msi" is the installation package for the latest Galileo Print Manager application. It is a 32/64-bit windows application and requires .NET Framework 4.0 as a prerequisite.

The Latest version of the GPM.NET installation is available on the Galileo Support Website:

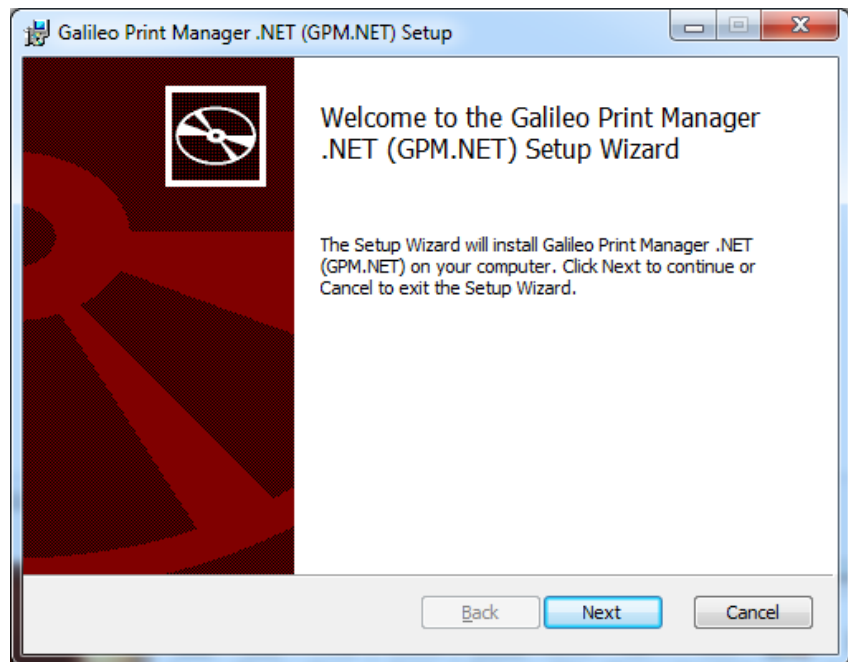
<http://support.galileo.com>

### Installation Steps

1. Double click on "**GPM.NET.msi**".

After completing the initial setup, the Welcome screen appears.

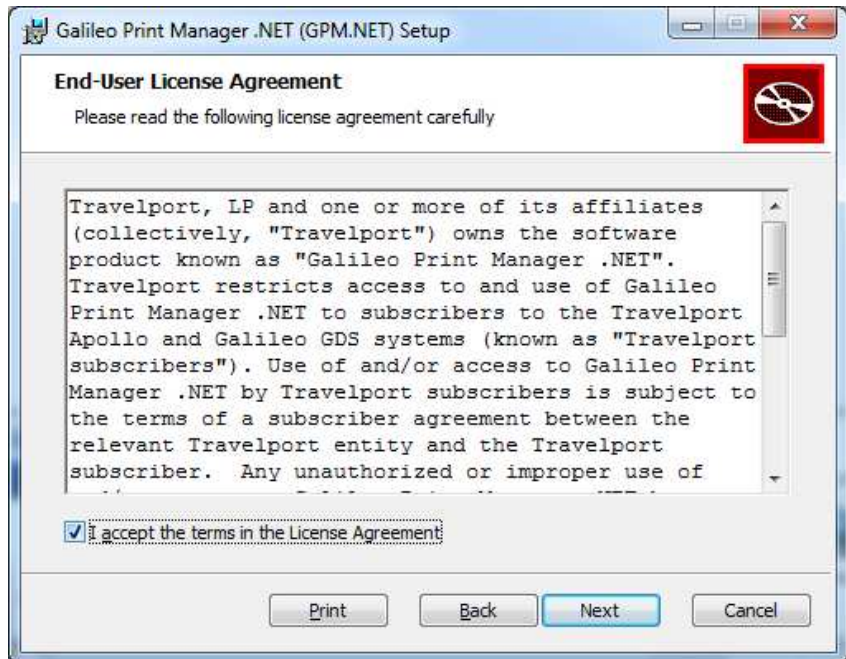
2. Click Next to proceed.



The End User License Agreement screen appears.

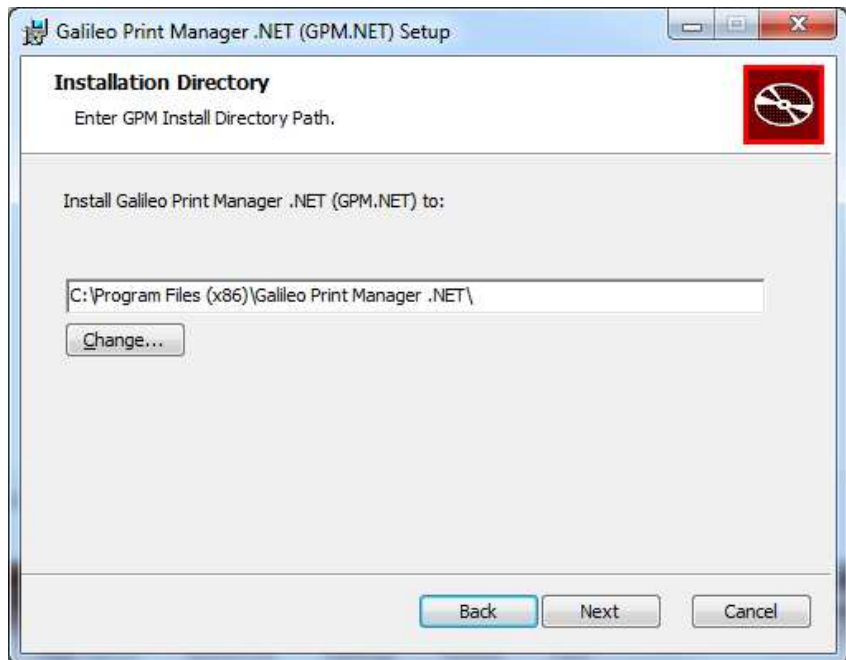
3. Accept the terms in the License Agreement and click "Next" button to proceed.

The Print option is available if you want to print the End-User License Agreement.



The Installation Directory screen appears.

4. Click Next to accept the default installation location or click Change and specify a new location.



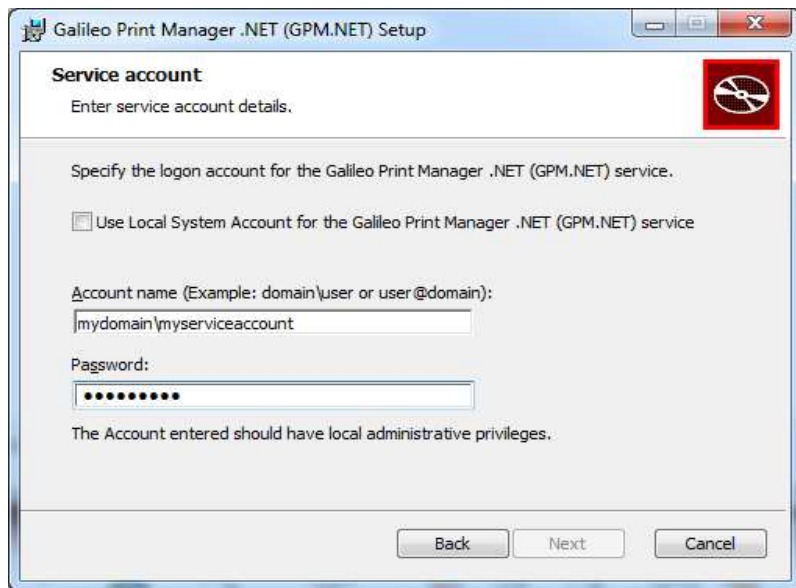
The Service Account screen appears.

Since GPM.NET runs as a Windows Service, the Service account screen allows you to specify which Windows account the service will use. This setting can be changed at a later time in the Windows Services management application.

If you intend to send document prints to a networked printer, then you should choose an account that has access to that device. In many cases, the Local System account will NOT be able to access networked devices on a domain.

**Note** : be sure to provide the **domain\username** if specifying an account other than the Local System account.

5. Click Next to proceed to the next step.

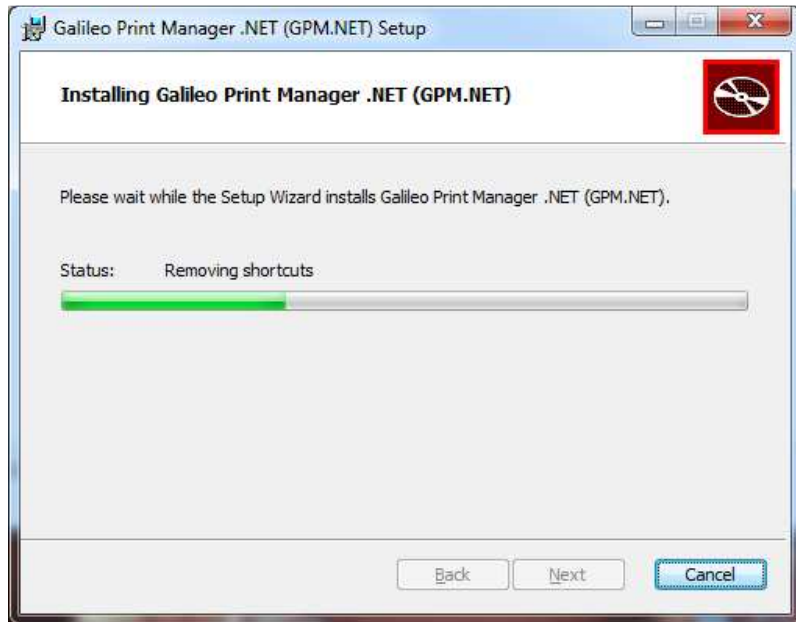


The Ready to Install screen appears.

6. Click the Install Button to start the installation procedure.



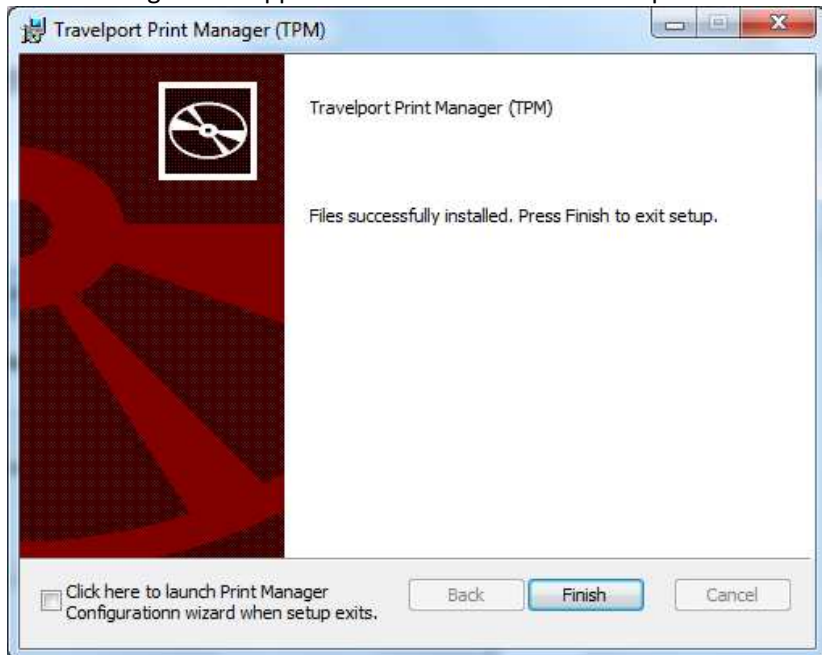
The “Please wait.....” screen appears, showing the installation progress.



7. Select “Finish” to complete the installation process.

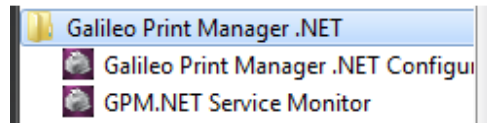
**Note:** In the lower left you can select the option to launch the Print Manager Configuration wizard. When this box is selected, it will launch after the installation finishes.

The following screen appears when the installation completes.





The installation adds the following items to the program menu.



Galileo Print Manager .NET Configuration: allows you to configure/reconfigure GPM.NET settings at any time, however it should be noted that any changes made will not take effect until the GPM.NET service is restarted or the machine rebooted.

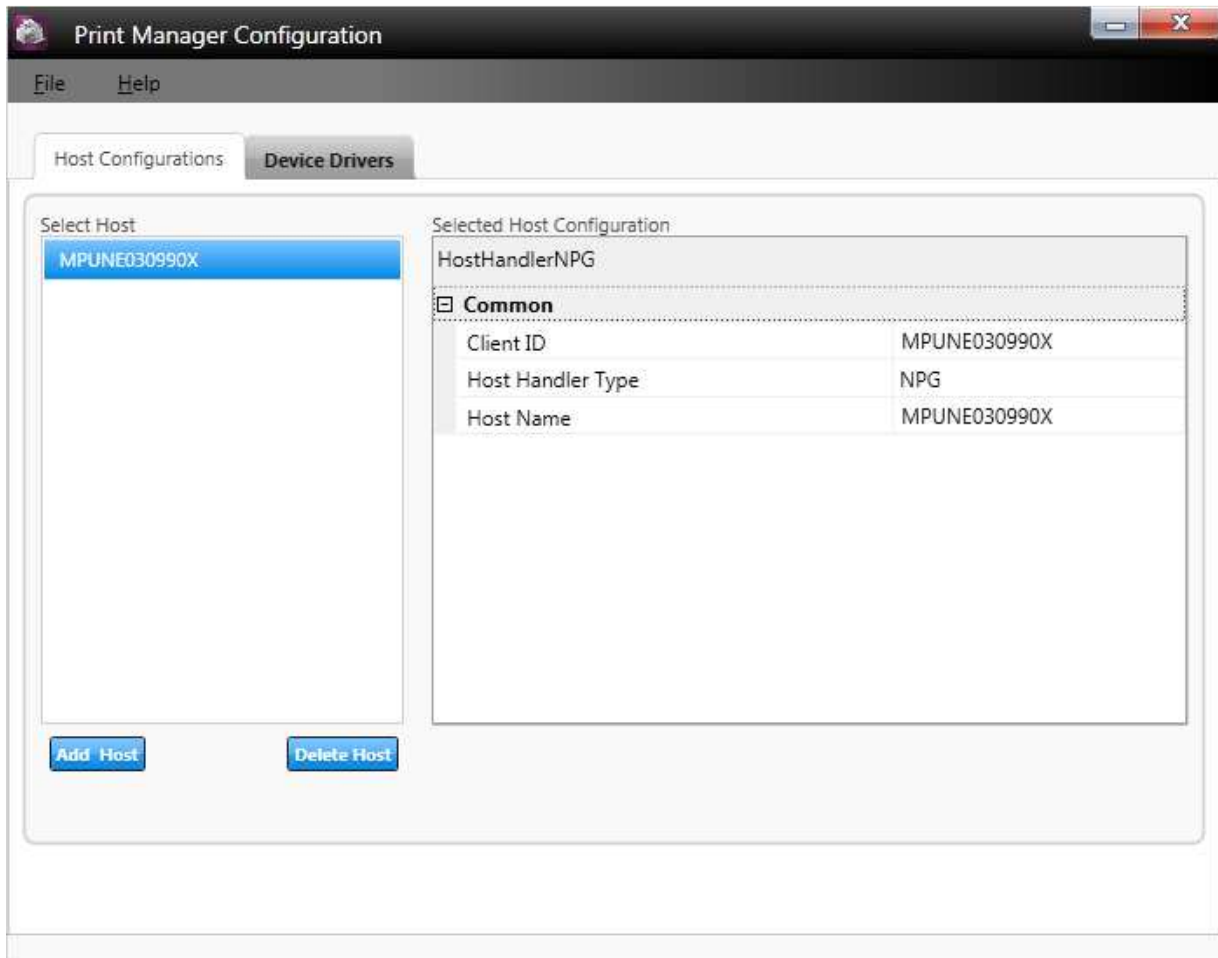
GPM.NET Service Monitor: is a utility that resides in the System Tray and can be used to launch the GPM status panel or restart the GPM service. See section titled: *How do I Start Galileo Print Manager .NET?* for further details.

## Galileo Print Manager .NET Configuration

When Print Manger Configuration is opened, the screen shown below appears. There are two tabs which separate the areas of functionality; *Host Configurations* and *Device Drivers*. Each tab allows for the addition, modification or deletion of such configuration.

### Host Configurations Tab

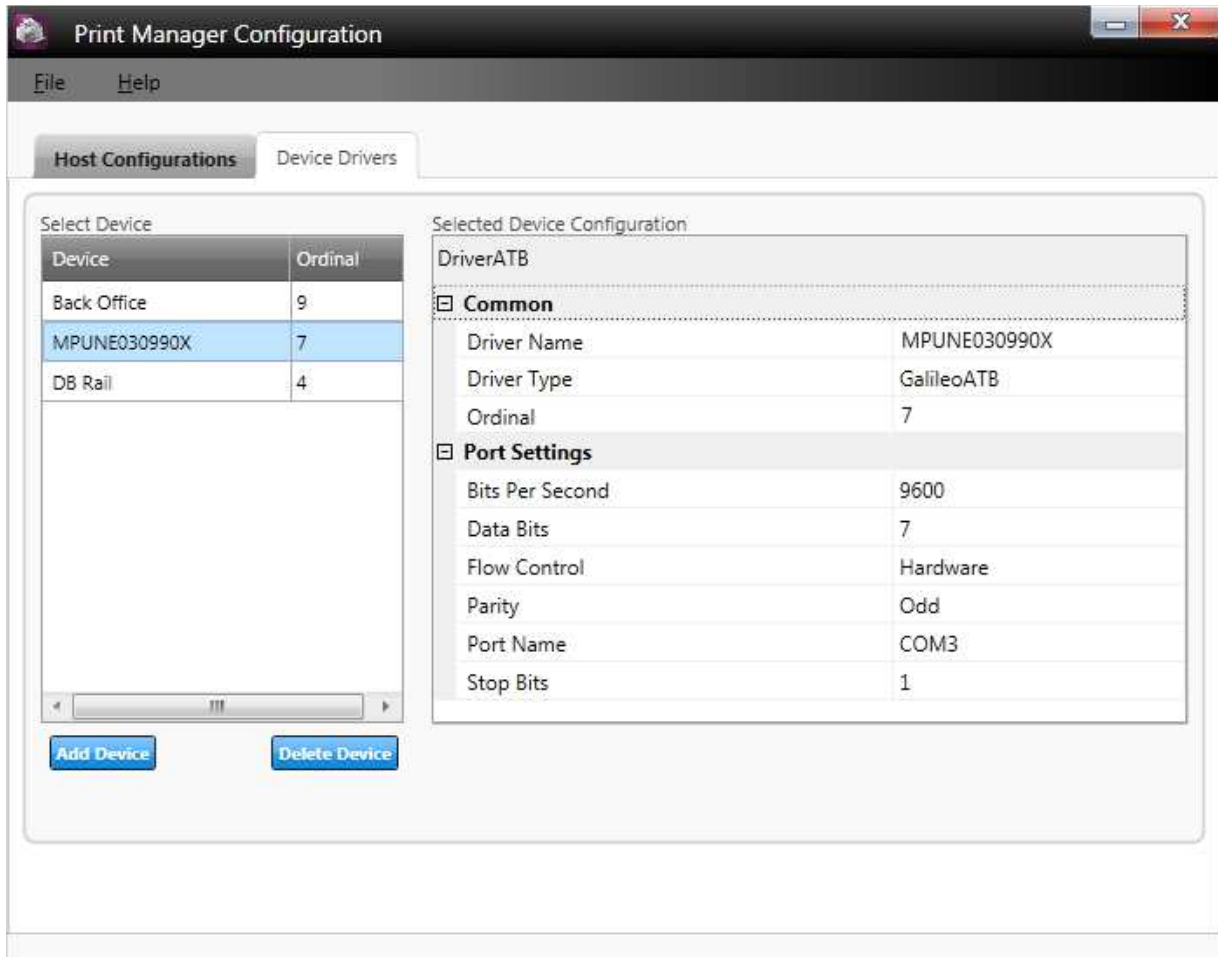
On this tab, you can **Add Host** and **Delete Host**. Choosing **Add Host** will launch a simple wizard dialog that guides you through the process, detailed in the section [Configuring A New Host Connection](#) below.



**TIP:** You can also modify certain parameters corresponding to the selected host in the property grid on the right.

## Device Drivers Tab

On this tab, you can **Add Device** and **Delete Device**. Choosing **Add Device** will launch a simple wizard dialog that guides you through the process, detailed in the section [Configuring New Device Drivers](#) below.



**TIP:** You can also modify certain parameters corresponding to the selected device in the property grid on the right.

## Configure a New Host Connection

You will need to configure at least one host connection before running GPM.NET. Host connections allow GPM.NET to talk to the relevant host (currently Galileo, Apollo or GPDS for Rail vendors etc.) and receive data. You can configure as many host connections as you require however most users will rarely need more than one or two.

When you select **Add Host** from the Host Configurations tab, you will see the screen below. Here, you can select the type of host you wish to configure, the Client ID and a name of your choosing for this connection. If you are upgrading from a previous version of GPM, then you should use the same Client ID, otherwise it should have been provided to you by your Travelport representative.

**Tip:** There are certain characters that may not be used depending on the parameter (e.g. <, >, ! and @ cannot be used in a Host Name). Such characters will not appear when typed if the field does not allow them.

**Note:** If you were previously using the Galileo SSL product to access the Travelport network, this is not required for GPM.NET since it is integral. Therefore if you are targeting the Galileo/Apollo LCN Host, your network must be able to access the Galileo SSL gateway **gdssl-atl.galileo.com** using TCP port **443**.

- Click **Next** when the parameters have been correctly entered.
- Click **Finish** to complete the addition of the new host connection.

The Contratulations! Screen appears.

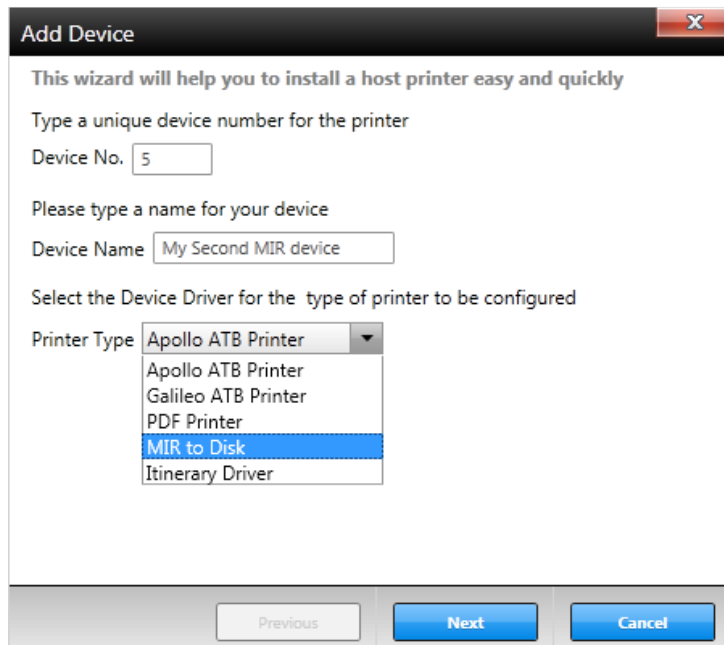
**Note:** Users of previous versions of GPM might be wondering where some of the old parameters can be entered, such as Primary IPCS, IPC, GPDS Notify Proxy Gateway, Answerback queue name etc. Such parameters are no longer required. Users who need to target the Galileo, Apollo or GPDS **COPY** systems should contact their Travelport representative.

## Configure New Device Drivers

At least one device needs to be configured in GPM.NET before any processing of host data can occur. You can configure as many device drivers as you require (assuming the host PC has the resources to support them).

When you select **Add Device** on the Device Drivers tab, you will see the screen below. Here, you can select the type of device you wish to configure, the unique ordinal number and a name of your choosing for this device. If you are upgrading from a previous version of GPM, then you should use the same ordinal number mappings.

**Tip:** There are certain characters that may not be used depending on the parameter (e.g. <, >, ! and @ cannot be used in a Device Name). Such characters will not appear when typed if the field does not allow them.



The screenshot shows a dialog box titled "Add Device" with a close button (X) in the top right corner. The dialog contains the following text and controls:

- Header: "This wizard will help you to install a host printer easy and quickly"
- Text: "Type a unique device number for the printer"
- Text input: "Device No." with the value "5" entered.
- Text: "Please type a name for your device"
- Text input: "Device Name" with the value "My Second MIR device" entered.
- Text: "Select the Device Driver for the type of printer to be configured"
- Text: "Printer Type" with a dropdown menu.
- Dropdown menu options: "Apollo ATB Printer", "Galileo ATB Printer", "PDF Printer", "MIR to Disk" (highlighted in blue), and "Itinerary Driver".
- Navigation buttons at the bottom: "Previous" (disabled), "Next" (active), and "Cancel".

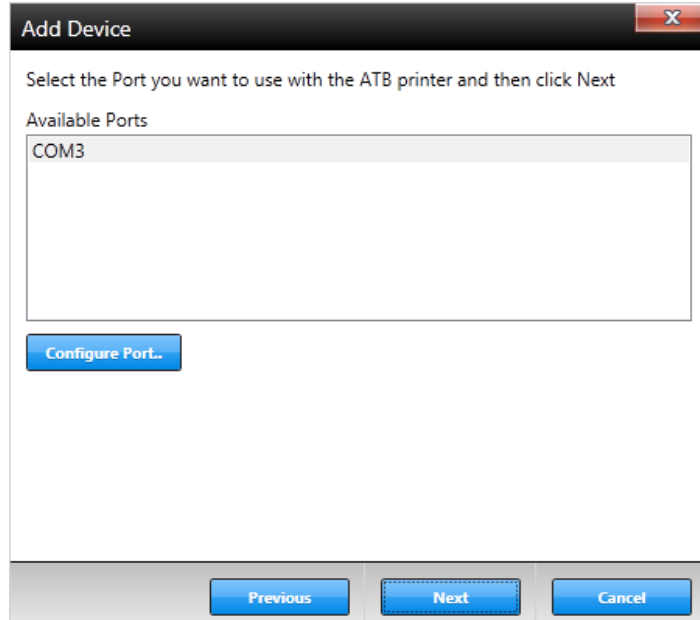
Once you have entered the relevant information, click **Next**. The subsequent screen depends on the driver type that you chose.

## Driver Types

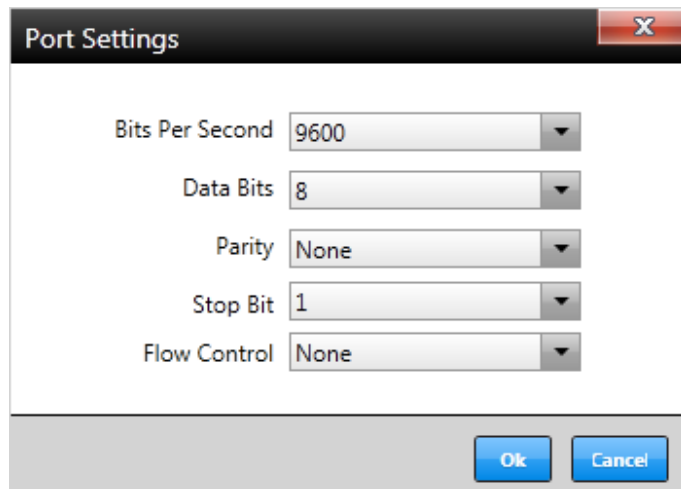
### *Galileo or Apollo ATB Driver*

The Galileo/Apollo ATB drivers are the only drivers in GPM.NET which directly communicate with a Serial (COM:) port. Therefore the serial port and its settings must be specified. A list of available ports will be displayed.

When you have selected the port that the physical printer is attached to, click **Configure Port...** to specify the serial port settings.



Clicking **Configure Port** displays the following (or similar) :-

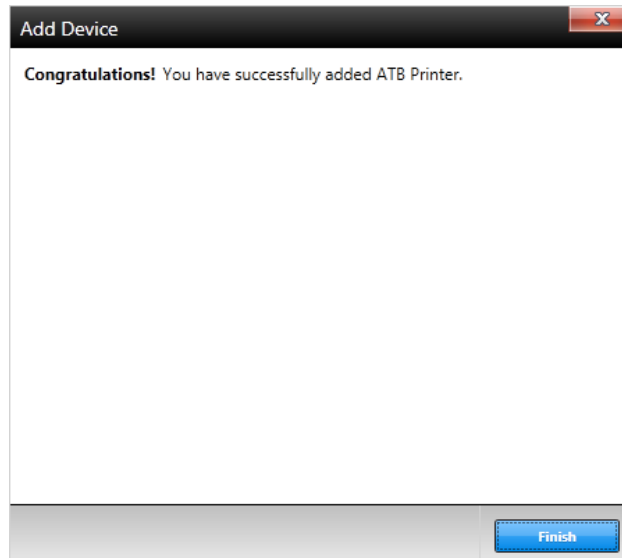


These port settings must match the corresponding settings in your printer. Mismatched settings will cause the printer to fail when used.

Once you have set the correct values, click **OK**, then **Next** on the previous screen.

The following screen is displayed.

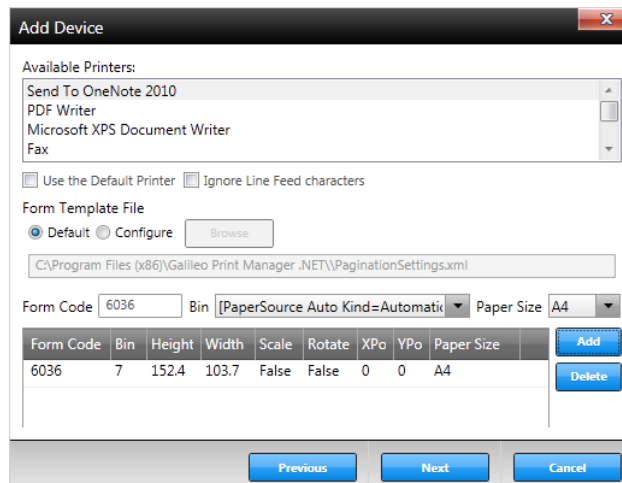
Click **Finish** to complete the addition of the new device driver.



### *PDF Driver (German Market)*

Select the Windows printer to be used for PDF data printing. The PDF driver supports additional parameters that include the PaginationSettings file and corresponding Form Code, Bin and Paper Size settings.

Click **Next** and then **Finish** to complete the addition of the new device driver.

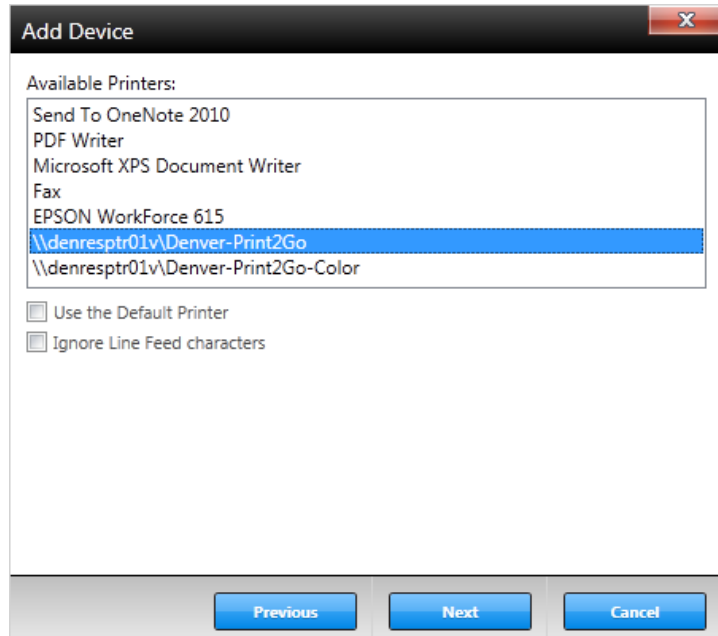


**Note:** Because GPM.NET runs as a Windows service it does not run on the User Interface level of the operating system and does not display dialog screens. Because of this; if you select a PDF Writer, Microsoft XPS Document Writer or some other printer that requires user input, that user input screen may not display on the screen.

### *Itinerary Driver*

Select the Windows printer that will be used to print itineraries (or select Use the Default Printer).

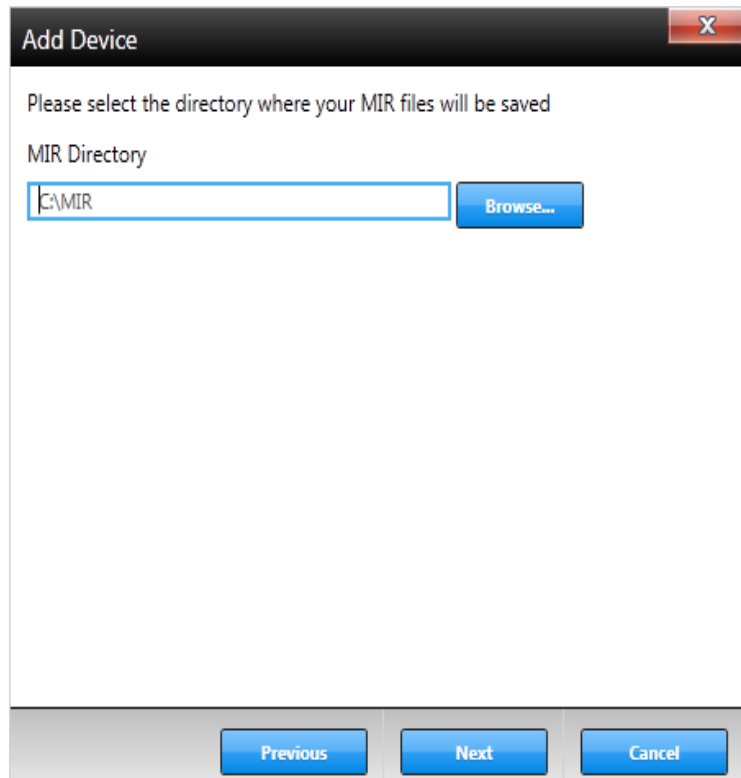
Click **Next** and then **Finish** to complete the addition of the new device driver.



### *MIR To Disk*

Select the MIR directory using the **Browse...** button. Alternatively, you can enter the directory path directly in the **MIR Directory** input box.

Click **Next** and then **Finish** to complete the addition of the new device driver.

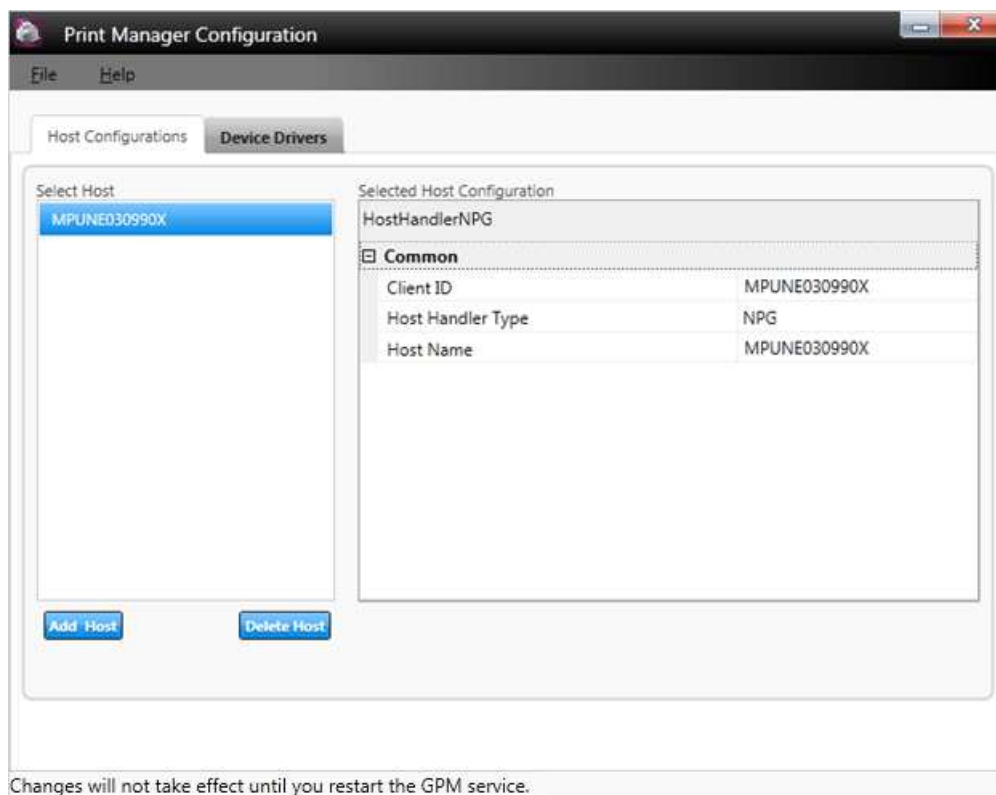




## Saving Your Changes

As you make changes to the Host or Device configurations, your changes are automatically saved to the configuration files. Once you are done with all your changes, you can simply exit the application from the File | Exit menu option or close the application with the red X in the top right corner.

If the GPM service or service Monitor are currently running, as you make changes, you will see the message at the bottom of the screen...Changes will not take effect until you restart the GPM service. This is simply to let you know that unless you restart the GPM service it will not have any changes you might have made for the Host or Device configurations.



As you exit out of the Configuration application you will be prompted with the option to restart the GPM service and monitor at that time. Again, this will only happen if either the service, monitor or both are currently running.



## How do I Start Galileo Print Manager .NET?

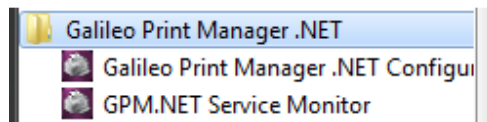
GPM.NET installs and runs as a Windows Service. This means that it is running all the time, whether a user is logged on or not.

When a user logs into Windows, a System Tray icon (see below) exists for GPM.NET that allows interaction with it.

**IMPORTANT!** – Due to the fact that GPM.NET runs as a Windows Service, any changes to configuration will not take effect until the GPM.NET service is stopped and restarted (allowing it to load the new configuration).

## Galileo Print Manager .NET Service Monitor

Once the configuration are done you can run the GPM.NET using "GPM.NET Service Monitor" from the "Program's Menu"



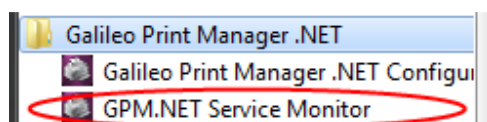
It should start GPM.NET and should display an icon in System Tray

## System Tray Icon & Context Menu

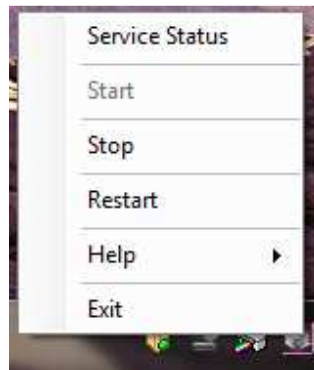
The following icon resides in the system tray when Galileo Print Manager is installed.



If you are unable to locate this icon, you can launch it using "GPM.NET Service Monitor" from the Windows Start Menu.



Right-Clicking on the icon in the System Tray displays a menu:-



- **Start** - To start GPM Service (disabled if GPM.NET is already started)
- **Stop** - To stop GPM Service (disabled if GPM.NET is stopped)
- **Exit** – Remove the System Tray icon. Note that this will not affect the running state of GPM.NET!
- **Service Status** - Displays the current status of the connected host and configured devices.

## Service Status

The following screen will appear when you select Service Status from the context menu from the System Tray icon. There are three main sections in the status screen, dealing with service status, host connectivity and device status.

The screenshot shows the 'Print Manager Status' window with the following sections:

- Service Status (Service Running):** GPM service started at 08/16/2012 14:51:11. Includes 'Clear' and 'Configure' buttons.
- Host Connections:** A table with columns: Host Name, Reference ID, Targetting, Connection Status. One entry is shown: MPUNE030990X, MPUNE030990X, https://emea.copy-web..., Notifiable. Includes 'Connect', 'Disconnect', and 'Check Queue' buttons.
- Configured Devices:** A table with columns: Ordinal, Device, Selected Host Association, Type, Targetting, Status. Three entries are shown:
 

Ordinal	Device	Selected Host Association	Type	Targetting	Status
4	DB-Rail	MPUNE030990X004	PDF	\\denresptr01v\Denver...	Available
7	MPUNE030990X	MPUNE030990X007	AT&T	COM3	Available
9	Back-Office	MPUNE030990X009	MJR	C:\Temp	Available

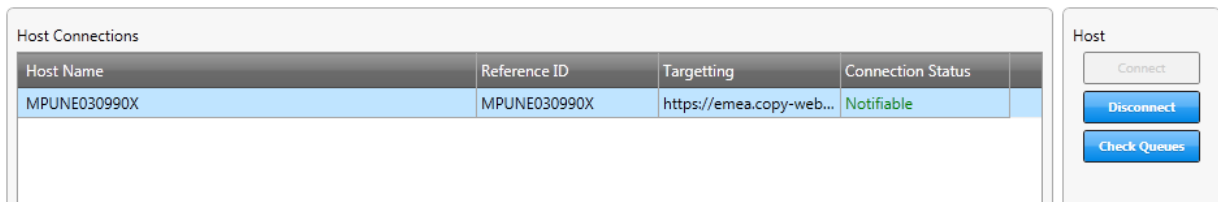
 Includes a 'Test Print' button for the selected device (DB-Rail).

(Note the Configure button is for easy access to the overall configuration of GPM.NET, not just a specific driver).

## Host connections

This area displays the current status of any configured host connections. Information such as the given name of the connection (user defined), reference ID (Client ID) and current connection state are shown. Selecting a host connection enables the ability to manually **Disconnect** or **Connect** using the buttons to the right.

Note also the button "**Check Queues**" which will allow you to manually check the host queues for any print data.



Note also that for GPDS hosts, the product has a default Temporary Password defined internally. If a non-standard password was used during provisioning, a parameter must be added to the Host.Config file. This function replaces the GPDS popup password dialog that users of older GPM products may have seen.

```

Host.Config - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    <sectionGroup name="HostHandlers" type="System.Configuration.ConfigurationSectionGroup,
System.Configuration, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" >
      <section name="MyClientSection"
type="Travelport.PrintManager.Configuration.PrintManagerConfigurationSection,
Travelport.PrintManager.Configuration, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null"
allowLocation="true" allowDefinition="Everywhere" allowExeDefinition="MachineToApplication"
overrideModeDefault="Allow" restartOnExternalChanges="true" requirePermission="true" />
    </sectionGroup>
  </configSections>
  <HostHandlers>
    <MyClientSection>
      <clear />
      <add key="Type" value="NPG" />
      <add key="ClientID" value="MyClientID" />
      <add key="Assembly" value="GpdswebServicesHostHandler.dll" />
      .
      .
      <add key="TemporaryPassword" value="MyTempPassword" />
    </MyClientSection>
  </HostHandlers>
</configuration>

```

## Configured Devices

This area displays the current state of any configured device drivers. Information such as the associated ordinal number, device name, and current state are shown.



Ordinal	Device	Selected Host Association	Type	Targetting	Status
4	DB-Rail	MPUNE030990X004	PDF	\\denresptr01v\Denver...	Available
7	MPUNE030990X	MPUNE030990X007	ATB2	COM3	Available
9	Back-Office	MPUNE030990X009	MIR	C:\Temp	Available

Device (DB-Rail)

Test Print

As with the host connection information, buttons to the right can be clicked to affect the selected device driver.

The **Test Print** button allows for validation of the device driver configuration.