PrintFlow® Dynamic Scheduling
Software & Hardware Requirements

PrintFlow Software Components
PrintFlow consists of the following main components:

The PrintFlow database is created in the SQL Server database management system on the server. (This is a second database for the PrintFlow data, and is separate from the Monarch Planner database.) It contains information updated from Planner via the PrintFlow Connector and data saved from the PrintFlow application, including changes to scheduled runs, cost centers, shift patterns, and shuts.

The PrintFlow Scheduling program is installed on the user’s computer. A license registration key is required during installation. The application controls the release of the schedule, and reads from and writes to the PrintFlow database directly. It does not write to or read from Planner tables, nor does it send data through the PF_Connector. (The PrintFlow application is not a true client/server application, but acts like one. A client/server application relies on the server to function, but PrintFlow does not. You can launch it and load scheduling data from a scenario without any communication with a server, and if you change a value in the Configuration and Maintenance window, it does not affect the PF_Connector or Maintenance Utility.)

The PF_Connector program is installed on the server computer and is used for configuration and communications. It processes transactions sent from Planner and updates the PrintFlow database with these transactions. (Communication is one way, from Planner to PrintFlow; data is not sent directly from PrintFlow to Planner.) Transactions include new jobs sent to PrintFlow and changes to data on jobs already sent to PrintFlow, including updates from data collection. The program supports e-mail notifications if an error occurs.

The PrintFlow Website program requires the PrintFlow Website service installed on the server and Internet Explorer, Safari, or Firefox browser on the user’s computer, which can be a Mac or PC. The Website provides remote access to PrintFlow reports and status displays using HTML pages. For Monarch integrations, the Website is also required for setting user access rights to time ranges and cost centers in both the Website and in the application itself.

Minimum Hardware Requirements
Your EFI representative can help you determine the required hardware, which depends on many variables:

- Number and type of users: schedulers, customer service representatives, planners, sales, and management
- Average number of jobs, forms, and tasks to be scheduled for short and long term
- Company-wide schedule
- Uptime (shift) requirements (7x24, 5x8, etc.)
- Response time requirements for short-term and long-term schedule
- Online history storage requirements
- Interface requirements
**BUSINESS AUTOMATION SOFTWARE FOR PRINT AND PACKAGING**

The minimum **software** requirements are given in the following table. Performance is directly proportional to the processor speed and memory; more of either improves performance.

<table>
<thead>
<tr>
<th>Component</th>
<th>Operating System</th>
<th>Database</th>
<th>CPU</th>
<th>RAM</th>
<th>Monitor</th>
<th>Other Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrintFlow Database</td>
<td>Windows Server 2008</td>
<td>Microsoft SQL Server 2008 Standard Edition</td>
<td>3.0 Ghz</td>
<td>4 GB</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>PrintFlow Scheduling</td>
<td>Windows 7 or Windows XP</td>
<td>One SQL Server license is required for each PrintFlow Scheduling. The Microsoft SQL Server Standard Edition with five local licenses is sufficient for most users.</td>
<td>3.0 Ghz</td>
<td>1024 MB</td>
<td>19” with 1024x768 resolution and at least 16 bit (High Color) color quality*</td>
<td>n/a</td>
</tr>
<tr>
<td>PrintFlow Connector</td>
<td>Windows 2008 Server</td>
<td></td>
<td>3.0 Ghz</td>
<td>1024 MB</td>
<td>n/a</td>
<td>Microsoft ASP.NET Framework version 2.0.50727</td>
</tr>
<tr>
<td>PrintFlow Website</td>
<td>Server: Windows 2008 Server</td>
<td></td>
<td>3.0 Ghz</td>
<td>1024 MB**</td>
<td>n/a</td>
<td>User's computer: Adobe Flash v10</td>
</tr>
</tbody>
</table>

* PrintFlow has two recommended resolutions: the standard resolution of 1024x768 and the higher resolution of 1280x1024. The standard resolution is sufficient for most users, but the higher resolution is necessary for the Quad Schedule Editor feature. Only those users who use the Quad Schedule Editor and do not use the Gantt Chart should use the higher resolution.

** As with all other specifications in this table, 1024 MB is the minimum requirement. For best use of the Website, 2048 MB is recommended.

For more information about EFI Monarch or PrintFlow Dynamic Scheduling, please visit www.efi.com/monarch or call 1-800-875-7117.

**EFI**

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