Eco-Settings

Administrator's Guide

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Overview

The Eco-Settings solution is an embedded Java application installed as a flash file on single-function printers (SFPs) and multifunction printers (MFPs) that support the *Embedded Solutions Framework* (eSF). The application lets administrators easily manage energy consumption, noise, toner and paper usage settings to help reduce the environmental impact of your printer.

Configuring the application

Configuring applications using the Embedded Web Server (EWS)

Accessing application configuration settings using the Embedded Web Server

1. Type the printer IP address or host name in the address field of your Web browser.

   Note: If you do not know the IP address or host name of the printer, then you can:

   - View the information on the printer control panel home screen, or in the TCP/IP section under the Network/Ports menu.
   - Print a network setup page or menu settings page, and then locate the information in the TCP/IP section.

2. From the navigation menu on the left, click **Settings** or **Configuration**.
3. Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.
4. From Installed Solutions, click the application you want to configure, and then click **Configure**.

Changing display icons and labels

You can change the icons and associated text that appear on the printer home screen. If you do not want to use the default icons for an application, you can import new icons to be used for both the pressed and unpressed button states.

Note: For information about compatible image file types and recommended file sizes, see the mouse-over help next to each field.

1. From the application configuration settings you can:
   - Specify new Icon Text, to be displayed above the icon on the home screen.
   - **Browse** to a new icon image file to represent the application on the home screen.
   - **Browse** to a new image file to be displayed while the application icon is being pressed.
2. Click **Apply** to save the settings or **Reset** to return to the previous settings.

Configuring applications using MarkVision Professional (MVP)

Use MarkVision™ Professional (MVP) to configure multiple printers at one time.

Note: MVP can only be used for printers that support the Embedded Solutions Framework (eSF) 1.2 and 2.0. For more information, see “Checking which version of the Embedded Solutions Framework is installed on a printer” on page 16.

Installing solution descriptors on the MarkVision Server

Solution descriptors are XML files that are installed on the MarkVision Server. They describe to MVP how to configure an embedded solution, providing information about supported settings such as types, descriptions, ranges, defaults, and internationalization values and strings. Each embedded application includes a solution descriptor, which must be installed before the application can be configured.

Use one of the following methods to install a solution descriptor on the MarkVision Server:

Method one

1. From the MarkVision Professional Home screen, select **Embedded Solutions - Solutions Management** from the All Tasks list.
2. Use the Quick Find or Folders tabs to select a device.

   Note: When a device managed by MVP is not supported by a specific task, its name will appear with a black line through it in the Quick Find or Folders tabs. Password-protected network devices are displayed in red. Enter the device password to gain access to the device.
3. Select the application from the list.
4. Click **Fetch Descriptor(s)**. This will read the solution descriptor from the device if this method is supported by the device. If it is not, a dialog will open so that you can browse to the file to be installed.

Method two

1. From the MarkVision Professional Home screen, select **Embedded Solutions - Solutions Management** from the All Tasks list.
2. Use the Quick Find or Folders tabs to select a device.

   Note: When a device managed by MVP is not supported by a specific task, its name will appear with a black line through it in the Quick Find or Folders tabs. Password-protected network devices are displayed in red. Enter the device password to gain access to the device.
3. Click **Manage Descriptors**.
4. Click **Add**.
5. Browse to find the solution descriptor for the application.
6. Click **Open**.

Notes:

- The installed solution descriptor appears in the Plug-ins/Solutions on Server box. The solution descriptor details appear in the Details box.
- If the descriptor file is not valid, MVP 11.2 will display an error message.

7 Click **Close**.

Accessing application configuration settings using MarkVision Professional

Note: MarkVision Professional 11.2 or later required.

To configure a solution in MVP:

1 From the MarkVision Professional Home screen, select **Embedded Solutions - Solutions Management** from the All Tasks list.

2 Select devices using the Quick Find or Folders tabs.

Use **Ctrl + click** and **Shift + click** to select multiple devices.

Note: When a device managed by MVP is not supported by a specific task, its name will appear with a black line through it in the Quick Find or Folders tabs. Password-protected network devices are displayed in red. Enter the device password to gain access to the device.

All installed embedded solutions appear.

3 Select the solution to be configured.

4 Click **Fetch Descriptor(s)** to install the necessary solution descriptor onto the MVP server from the device.

5 Click **Configure**, and then adjust settings as needed.

Licensing the application

An electronic license is required for the application to run on the printer.

If individual licenses are used, then you must install them locally on each printer. If you plan to use the application with several printers, then you may prefer to install the Lexmark License Server and obtain a network license for the appropriate number of devices.

For more information on purchasing a license for the application, contact your Lexmark representative.

Obtaining a license file

For local (individual) licensing

1 From the Embedded Web Server, click **Settings** or **Configuration**.

2 Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

3 Click **System**.

4 Record the host ID (serial number).

   Record only the string that appears after **`Serial=`**.

5 Contact your Lexmark representative, and provide the host ID to obtain the license file.

For network licensing

The server Host ID is required to generate the license file for network licensing. To collect the Host ID, contact your system support person and request the MAC address of the computer on which the license server resides. Then contact your Lexmark representative, and provide the Host ID (MAC address) to obtain the license file.

You can also find the Host ID using the Lexmark License Server.

Installing the Lexmark License Server

Note: Lexmark License Server is intended for use with Windows operating systems.

1 From the application package, launch the **LicenseServer.exe** file.

   This executable file is located in <install location>\esf-license-app.

2 Click **Next**.

3 Select the installation method you want to use, and then click **Next**.

   You have the option to unpack the installation files to a temporary directory from which they will be removed after the installation is complete, or to specify a location where the files will remain after the installation is complete.

4 If you do not want the server installed in the default directory, then click **Browse** to select an alternate location.

5 Click **Finish** to complete the installation.

6 After the Lexmark License Server installation is complete, click **Done**.

Collecting the Host ID

1 Click or **Start** > **All Programs** or **Programs** > **Lexmark** > **Lexmark License Server** > **License Administration Tools**.

2 Click the **System Settings** tab.

3 Record the Host ID (MAC address).

4 Contact your Lexmark representative, and provide the Host ID.

   The Host ID is required to generate the license file.

Licensing the printer

Using a local license

Using the Embedded Web Server

1 From the Embedded Web Server, click **Settings** or **Configuration**.

2 Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

3 Click **Solutions**.

4 Under Installed Solutions, click the appropriate application link.

5 Click **License** > **Update License**.

6 Make sure **Local** is selected, and then click **Browse** to locate the license file.

7 Click **Update License**.

Using MarkVision Professional

1 In MarkVision Professional, select the device where the application is installed.

2 Click **Settings** > **Embedded Solutions** > **Solutions Management**.

3 Under the appropriate application, click **Update License**.

4 In the Update License window, select **Use a local license file**.

5 Click **Browse** to locate the license file.

6 Click **Update License**.

Using a network license

Copying the license file to the Lexmark License Server

Note: Before installing a network license using either the Embedded Web Server or MarkVision Professional, copy the license files to the license server.

1 Copy the license file to the following directory on the network license server:

C:\Program Files\Lexmark\LicenseServer\Licenses

2 On the host computer, open the Control Panel.

3 Under Administrative Tools, click **Services**.

4 Select **License Server**.

5 Stop, and then restart the **License Server** service.

Configuring the network license

1 From the Embedded Web Server, click **Settings** or **Configuration**.

2 Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

3 Click **Network License**.

4 Enter the IP address or host name and optional port for the network license server where the license is stored. You can enter values for up to three separate servers.

5 In the Heartbeat Period field, enter a value of 2–60 minutes to designate how often the printer will ping the network license server to check for updates and maintain access to an electronic license.

6 In the Number of Retries field, enter a number of 1–5 to set the maximum number of times the printer can attempt to obtain a license before quitting.

7 Click **Apply**.

Updating the network license

Using the Embedded Web Server

1. Click **Solutions**.
2. Under Installed Solutions, click the appropriate application link.
3. Click **License** > **Update License**.
4. Select **Network**.
5. Click **Update License**.

Using MarkVision Professional

1. In MarkVision Professional, select the device where the application is installed.
2. Click **Settings** > **Embedded Solutions** > **Solutions Management**.
3. Under the appropriate application, click **Update License**.
4. In the Update License window, select **Use a network license server**.
5. Click **Update License**.

Configuring Eco-Settings using the Embedded Web Server

Configuring energy- and paper-saving options

1. Access the application configuration settings from the Embedded Web Server or MarkVision Professional.
2. Adjust the following settings as necessary:
   - **Eco Mode**—Choose **Off**, **Energy**, **Energy/Paper**, or **Paper**.

     Note: If your printer model supports duplex printing, then you will be able to print on both sides of the paper. Choosing **Energy/Paper** will automatically set 2-Sided Printing and Sleep Mode to default values. Additional changes made to these settings through the Embedded Web Server will be ignored.
   - **Standby Mode**—Type the number of minutes (1–240) the printer waits before it enters Standby Mode.
   - **Sleep Mode** or **Power Saver**—Type the number of minutes (1–240) the printer waits before it enters Sleep Mode or Power Saver mode.
   - **Screen Brightness**—Type a screen brightness percentage (20–100).
   - **2-Sided Printing**—Choose **1-Sided**, **2-Sided Long Edge**, or **2-Sided Short Edge**.
   - **Darkness** or **Toner Darkness**—Choose a toner darkness value (1–5).
   - **Quiet Mode**—Select this check box to reduce the amount of noise produced by the printer.

     Note: When this option is selected, printer engine motors do not start until a print job is ready to print. You may notice a short delay before the first page is printed, as well as a reduction in processing speed.
   - **Lock UI**—Select this check box to prevent users from changing Eco-Settings from the printer control panel.
3. Do one of the following:

Using the Embedded Web Server

- Click **Restore Defaults** to return all fields to factory default settings.
- Click **Reset** to cancel changes to all fields and begin again.
- Click **Apply** to save changes to the profile.

  Note: Reset and Apply are the only options available on certain devices.

Using MarkVision Professional

- Click **OK** to save changes.
- Click **Cancel** to exit without making changes.

Scheduling energy-saving tasks

Note: This option is available only in printers that support the Embedded Solutions Framework (eSF) 3.0.

1. Access the application configuration settings from the Embedded Web Server.
2. From the Scheduled Power Modes section, click **Add**.

   The Add Schedule Power Modes page appears.
3. In the Event Name field, type a descriptive name for the task.
4. From the Power Mode list, select an energy-saving task.
5. From the Time field, select the hour of day for the printer to perform the energy-saving task.
6. From the Day(s) field, select the day of the week or the span of days for the printer to perform the energy-saving task.
7. Do one of the following:

Using the Embedded Web Server

- Click **Restore Defaults** to return all fields to factory default settings.
- Click **Reset** to cancel changes to all fields and begin again.
- Click **Apply** to save changes to the profile.

  Note: Reset and Apply are the only options available on certain devices.

Using MarkVision Professional

- Click **OK** to save changes.
- Click **Cancel** to exit without making changes.

Configuring Eco-Settings using the printer control panel

Note: Make sure the Lock UI option is not selected in the application configuration settings for you to configure Eco-Settings from the printer control panel.

1. From the home screen, touch the application icon.
2. Adjust the settings as necessary.
3. After all Eco-Settings are configured, touch **Submit** or **OK**.

Activating Eco-Mode

1. Touch **Eco-Mode** > select a setting.
2. Touch or **Done**.

Notes:

- If your printer model supports duplex printing, then you will be able to print on both sides of the paper. Choose **Paper** to set 2-Sided Printing.
- Choose **Energy/Paper** to automatically set 2-Sided Printing and Sleep Mode to default values. You will no longer be able to modify 2-Sided Printing and Sleep Mode after selecting **Energy/Paper**.

Activating 2-Sided Printing (duplex)

1. Touch **2-Sided Printing**, and then select **2-Sided Long Edge**, or **2-Sided Short Edge**.
2. Touch or **Done**.

Activating Quiet Mode

1. Touch **Quiet Mode** > **On**.
2. Touch or **Done**.

Note: In Quiet Mode, the printer runs at a speed that is slower than the default speed. You should notice an increase in processing time for your print jobs.

Setting other options

1. Adjust Standby Mode to set the time (1–240 minutes) the printer waits before going into standby mode.
2. Adjust Sleep Mode or Power Saver to set the time (1–240 minutes) the printer waits before going into Sleep Mode or Power Saver mode.
3. Adjust Screen Brightness to set the screen brightness settings (20–100%).
4. Adjust Darkness or Toner Darkness to set the darkness settings of your printed documents.

Setting advanced options

Note: This option is available only on printers that support the Embedded Solutions Framework (eSF) 3.0.

1. Touch **Advanced Options** to configure Schedule Power Modes.

Scheduling an energy-saving task

a. Touch the **Action** left or right arrow to select an energy-saving task.
b. Touch the **Time** icon to set the time when to perform the energy-saving task.
c. Touch the **Day(s)** left or right arrow to specify the day.
d. Touch **Add** to save the configuration.

Deleting a scheduled energy-saving task

a Scroll down the printer display to view the scheduled actions.

b To delete a scheduled task, touch the red **X** icon beside the scheduled task.

c To delete all scheduled tasks, touch **Delete List**.

d Touch **Yes** to confirm.

Note: The scheduled Power Modes created and deleted from the printer control panel will also be added and deleted from the Scheduled Power Modes section of the printer Embedded Web Server.

2 Touch .

Exporting and importing configuration files

After configuring an application, you can export your current settings into a file that can then be imported and used to configure that application on one or more additional printers.

Exporting and importing a configuration using the Embedded Web Server

You can export configuration settings into a text file that can then be imported and used to apply the settings to one or more additional printers.

Exporting a configuration

1 From the Embedded Web Server, click **Settings** or **Configuration**.

2 Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

3 From Installed Solutions, click the name of the application you want to configure.

4 Click **Configure** > **Export**.

5 Follow the instructions on the computer screen to save the configuration file, and then enter a unique file name or use the default name.

Note: If a **`JVM Out of Memory`** error occurs, then repeat the export until the configuration file is saved.

Importing a configuration

1 From the Embedded Web Server, click **Settings** or **Configuration**.

2 Click **Device Solutions** > **Solutions (eSF)**, or click **Embedded Solutions**.

3 From Installed Solutions, click the name of the application you want to configure.

4 Click **Configure** > **Import**.

5 Browse to the saved configuration file, and then load or preview it.

Note: If a timeout occurs and a blank screen appears, then refresh the browser, and then click **Apply**.

Exporting and importing a configuration using MarkVision Professional

Exporting configuration settings

1. From the MarkVision Professional Home screen, select **Embedded Solutions - Solutions Management** from the All Tasks list.
2. Using the Quick Find or Folders tabs, select the device(s) where the application is installed.

   Use **Ctrl** + **click** and **Shift** + **click** to select multiple devices.

   Note: Password-protected network devices are displayed in red. Enter the device password to gain access to the device.
3. From the list, select the name of the application you want to configure, and then click **Export**.
4. Browse to find a location to save the universal configuration file (.ucf), and then click **Save**.

Importing configuration settings

1. From the MarkVision Professional Home screen, select **Embedded Solutions - Solutions Management** from the All Tasks list.
2. Using the Quick Find or Folders tabs, select the device(s) where the application is installed.

   Use **Ctrl** + **click** and **Shift** + **click** to select multiple devices.

   Note: Password-protected network devices are displayed in red. Enter the device password to gain access to the device.
3. From the list, select the name of the application you want to configure, and then click **Import**.
4. Browse to find the universal configuration file (.ucf), and then click **Add**.

Appendix

Checking which version of the Embedded Solutions Framework is installed on a printer

1. Type the printer IP address or hostname in the address field of your Web browser.
2. From the Embedded Web Server, click **Reports** > **Device Settings**.
3. Scroll down until you see Embedded Solutions (usually found near the bottom).
4. Under Embedded Solutions, the value next to **Framework =** signifies the installed version.

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