



# **Bar Code Discovery**

## **Administrator's Guide**

**May 2011**

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# Overview

Bar Code Discovery is an embedded Java application installed as a flash file on multifunction printers (MFPs) which support the Lexmark Embedded Solutions Framework (LeSF). Using Bar Code Discovery, an administrator can create and manage bar code templates to specify the location and type of bar code that users will frequently scan. Other applications can then access these templates to reduce the amount of time it takes to scan and identify bar codes on a given printer.

# Configuring the application

## Licensing the application

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

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**.
- 2 Click **All Programs** or **Programs**, and then click **Lexmark > Lexmark License Server > License Administration Tools**.
- 3 Click the **System Settings** tab.
- 4 Record the host ID (MAC address).
- 5 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 From Installed Solutions, click the appropriate application link.
- 4 Click **License > Update License**.
- 5 Make sure **Local** is selected, and then click **Browse** to locate the license file.
- 6 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, click , or click **Start** and then click **Run**.

- 3 In the Start Search or Run box, type `control admintools`.
- 4 Press **Enter**, or click **OK**.
- 5 Click **Services > License Server**.
- 6 Stop the License Server service, and then restart it.

### 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 to 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 to 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 From Installed Solutions, click the appropriate application link.
- 3 Click **License > Update License > Network > 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 the application

## Configuring Bar Code Discovery

Bar Code Discovery is accessed from the home screen of the printer control panel. It cannot be accessed from the Embedded Web Server.

### Creating a bar code template

Automatic bar code discovery recognizes the most common bar code types and orientations on A4- or letter-size paper. If you are using a paper size other than A4 or letter or if the bar code is not recognized automatically, search for bar codes manually.

#### To search for bar codes automatically

- 1 Load a sample page including the bar code(s) for the template into the ADF.
- 2 From the home screen of the printer control panel, touch **Bar Code Discovery**.
- 3 Touch **Automatic bar code discovery**.  
The page is searched for bar codes. If automatic bar code discovery fails, you can search for bar codes manually.
- 4 Touch the bar code you want to configure, and then touch **Configure**.  
**Note:** If you do not want a bar code to appear in the template, touch the bar code, and then select **Ignore this bar code**.
- 5 Follow the on-screen prompts to enter a name for the bar code, set an optional delimiter, and assign optional field names.  
**Note:** Use a delimiter if the bar code contains multiple pieces of information that you want to identify separately, such as first and last names. The delimiter is the space or character that separates two or more fields within the bar code.
- 6 Repeat steps 5 through 6 for any additional bar codes that appear on the page, and then touch **Next**.
- 7 Enter a name for the template, and then touch **Next**.
- 8 Confirm that the template is correct, and then touch **Save**.

#### To search for bar codes manually

- 1 Load a sample page including the bar code(s) for the template into the ADF.
- 2 From the home screen of the printer control panel, touch **Bar Code Discovery**.
- 3 Touch **Configure bar code discovery**.
- 4 Follow the on-screen prompts to select the paper size and paper orientation.  
The page is then scanned.
- 5 From the scan preview, select the area(s) where the bar code appears.
- 6 If you know the bar code type, touch **Specific bar code types** to select the bar code type from the list. If you do not know the bar code type, touch **All bar code types**.

- 7** Touch **Next**.  
The page is searched for bar codes.
- 8** Touch the bar code you want to configure, and then touch **Configure**.  
**Note:** If you do not want a bar code to appear in the template, touch the bar code, and then select **Ignore this bar code**.
- 9** Follow the on-screen prompts to enter a name for the bar code, set an optional delimiter, and assign optional field names.  
**Note:** Use a delimiter if the bar code contains multiple pieces of information that you want to identify, such as first and last names. The delimiter is the space or character that separates the two or more fields within the bar code.
- 10** Repeat steps 8 through 9 for any additional bar codes that appear on the page, and then touch **Next**.
- 11** Enter a name for the template, and then touch **Next**.
- 12** Confirm that the template is correct, and then touch **Save**.

### **Deleting a bar code template**

- 1** From the home screen, touch **Bar Code Discovery**.
- 2** Touch **Manage bar code templates**.
- 3** Touch the template you want to delete.
- 4** Touch **Delete**, and then follow the prompts to complete the process.

# Troubleshooting

## Bar Code Discovery troubleshooting

### **The application icon is missing from the home screen**

For the application icon to appear on the home screen, the application must be licensed. For more information, see “Licensing the application” on page 6.

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