

# **ZOLL Data Retriever**

Version 6.5.6 and newer

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# **Overview**

ZOLL Data Retriever performs the following two functions:

- Transmit 12-Leads to RescueNet 12-Lead during patient care
- Upload case data after patient care has ended

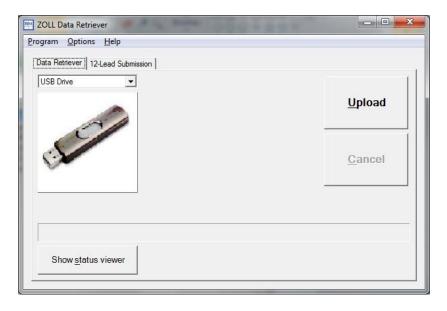
ZOLL Data Retriever presents these two functions each on a separate tab. The Data Retriever tab uploads cases. The 12-Lead Transmission tab collects 12-leads and transmits them to RescueNet 12-Lead.

# **Getting Started**

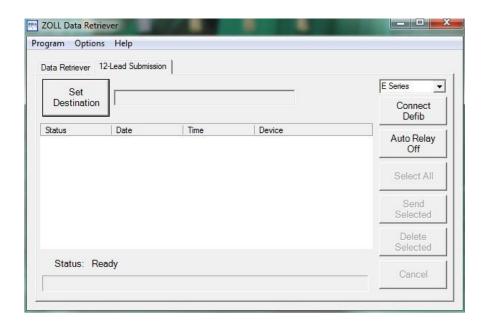
- 1. Click Start > All Programs> RescueNet> Data Retriever > Data Retriever or click the Data Retriever icon on your desktop.
- 2. If you are launching Data Retriever for the first time, the system asks you to configure a file location to store files.



3. Data Retriever opens and defaults to the Data Retriever tab.





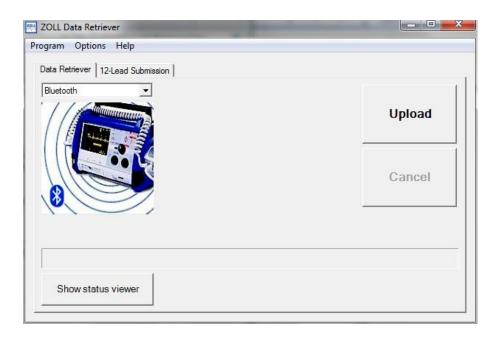


4. Click the 12-Lead Submission tab to display the 12-Lead dialog.

### **Data Retriever Case Transfer**

The Data Retriever tab provides the ability to upload defibrillator records directly to a folder location and add patient data so that the defibrillator can be immediately placed back in service.

For medics, this is as easy as selecting the method such as a Bluetooth or card reader and clicking **Upload**.





#### **Data Upload**

Depending on the method used and the size of the data, an upload typically completes in less than a minute to a couple of minutes.



### Optional information collection

Optionally, you can configure ZOLL Data Retriever to prompt for the user name of the person uploading the data. The system stores this information in the log file.



You can also configure Data Retriever to prompt for run/CPR number, case ID, and/or patient name. Refer to Finishing the upload to see the flow of data entry.

#### **Destination**

You can configure ZOLL Data Retriever to save the uploaded cases to a local folder or a shared network location.

#### 12-Lead Transmission

The 12-Lead Transmission tab provides the ability to collect 12-Leads from ZOLL E, M, and X Series defibrillators and communicates with RescueNet 12-Lead to distribute the 12-Leads to a destination of your choice. RescueNet 12-Lead is a free web-based management application on ZOLL Online that uses a web browser to provide quick, easy access to critical 12-Lead records.

- Data Retriever and RescueNet 12-Lead work together: Data Retriever's function is to collect 12-Lead files from a specified defibrillator and send them to RescueNet 12-Lead for distribution. RescueNet 12-Lead works with Data Retriever by providing destination locations and transmitting the 12-Lead file to the location you select. Because of this close relationship, you must configure the following information in RescueNet 12-Lead before you use Data Retriever:
  - Customer ID and password: Data Retriever uses a Customer ID and password to establish communication with RescueNet 12-Lead:



- RescueNet 12-Lead: In RescueNet 12-Lead, ZOLL assigns your company a Customer ID that displays in the RescueNet 12-Lead Configuration window. You assign a password for that Customer ID.
- Data Retriever: In Data Retriever, you enter that same Customer ID and password under Options > 12-Lead Submission > RN12LeadSetup. It is important that the Customer ID and password match for both products.

#### O Distribution lists:

- RescueNet 12-Lead: Use the Distribution tab to configure one or more distribution lists.
- Data Retriever: Data Retriever pulls the distribution lists from RescueNet
   12-Lead and displays them in a Destination pick list.



**Note**: For detailed instructions on how to administer RescueNet 12-Lead, see the RescueNet 12-Lead Administration Guide.



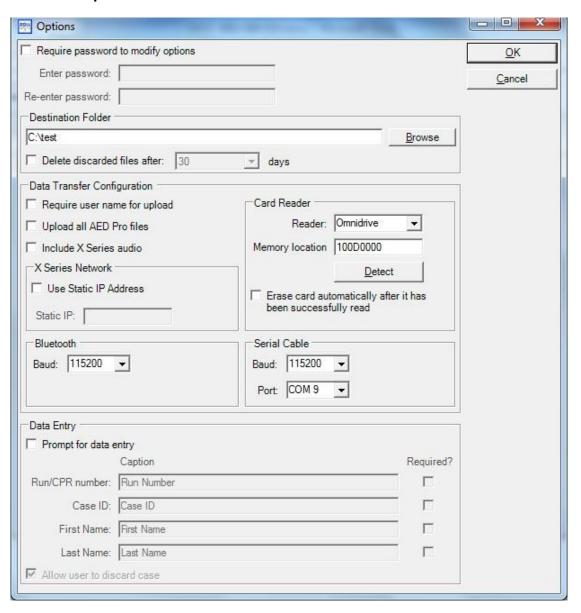
# **Transferring Cases**

Prior to uploading cases for the first time, you must set a destination folder and select a defibrillator transfer method. Other configuration options are optional.

# **Configuring ZOLL Data Retriever**

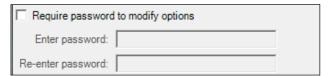
To access the configuration settings:

1. Click Options > Data Retriever.



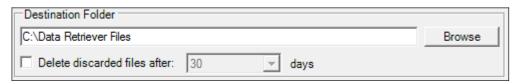


#### Require password to modify options



Click the box next to 'Require password to modify options' to require users to enter a password each time they login.

#### **Destination Folder**



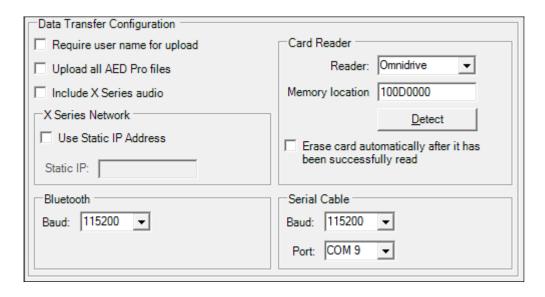
**Location**. The first time you start ZOLL Data Retriever, you are required to select a destination folder to store uploaded files. You can change that folder at any time. Strive to select a folder that will enable fast uploads so that the turnaround time for your medics is as quick as possible. Saving the cases to a local folder will not add anything to the upload time while saving to another location over a fast WAN might add a few seconds to a minute or more. Attempting to save a large file over a slow network could add an unacceptable amount of time to the upload process.

**Delete discarded cases after**. If you enable users to *select cases to discard* (see item under *Data Entry* below) as part of the upload process, you can use this option to specify how long the discarded cases will be saved before they are deleted. Discarded files are saved in the Discarded subfolder located in the specified ZOLL Data Retriever destination folder.

If you do not check this box, cases are saved indefinitely. Be aware that the files can be large; so if you do not set this option you will periodically have to perform manual maintenance.

### **Data Transfer Configuration**





- 1. **Require user name for upload**: Check this box to prompt users to enter their names at the start of the upload. This information is stored in the log file.
- 2. **Upload all AED Pro files** (including previously uploaded files): Check this box to upload all the cases from the AED Pro, including cases that were previously uploaded. If this option is not checked, the system will only upload new cases.
- 3. **Include X Series audio**: Check this box if your X Series device is capable of recording audio. When selected and the data transfer is done via Wi-Fi, the audio data is also transferred. If you are using USB to transfer the data, the audio data (if available) will always be transferred so selecting this option is not necessary.

#### 4. X Series Network:

a. Select Use Static IP Address and enter the IP Address of the X Series to skip the discovery process and always connect to the same IP address.

#### 5. Bluetooth:

a. Select the Bluethooth baud rate. The default is 115200.

Important! The M Series/E Series must be set to the same Upload Baud Rate.

#### 6. Serial Cable:

- a. **Baud**: Select the Serial baud rate. By default, this is 115200.
- b. **Port**: The correct port to use depends on the device, but is typically COM 1 or COM2. Verify that the port you select is not already being used by another device.

Important! The M Series/E Series must be set to the same Upload Baud Rate.





#### Note: Serial cable parts needed

You will need one of the following cables if you use a serial cable connection:

- ❖ The RS232 serial cable that connects to the defibrillator and ends in a female serial connector (ZOLL part # 8000-0605-01).
- ❖ The RS232 serial to USB cable that connects to the defibrillator and ends in a USB connector (ZOLL part # 8000-0465-01).

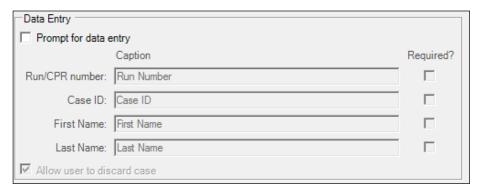
#### 6. Card reader

- a. Internal. Choose Generic for internal card readers like those installed in notebook PCs. The memory location can be found automatically by a tool available in RescueNet Code Review.
  - 1. Launch RescueNet Code Review.
  - 2. Go to Tools > Options > Card Reader.
  - 3. Click Detect to find the first free memory window.
  - 4. Copy the selected memory window.
  - 5. Now go back to ZOLL Data Retriever Options and paste that memory window in the memory location field.
- b. **External**. Choose External for the OmniDrive Pro, OmniDrive USB LF, and the OmniDrive USB Intern Pro.

You can optionally choose to have the system erase cards automatically after it successfully reads it. This makes it possible to use the card next in either an M Series/E Series.



#### **Data Entry**

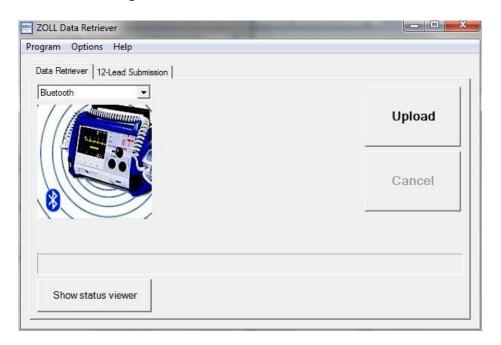


**Prompt for data entry**. If checked, the system prompts users to enter additional information at the end of the upload. You can choose which items are required. You can also provide your own caption for the items. However, captured information is used to populate associated fields in RescueNet Code Review, so you should use related captions.

**Allow user to discard case**: You can enable users to select cases to discard when they are in the data entry screen. See also the preceding *Delete discarded cases after* option.

# **Starting ZOLL Data Retriever**

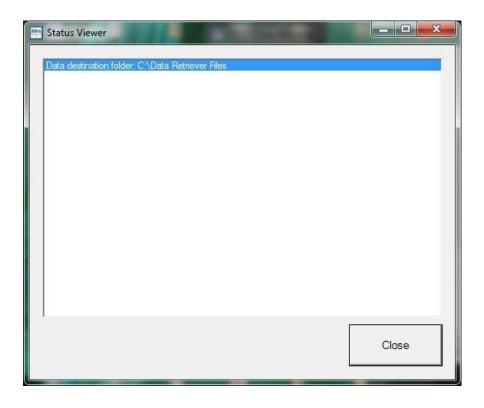
1. Click Start > Programs > RescueNet > Code Review > Utilities > ZOLL Data Retriever.





# **Status viewer**

Click **Show status viewer** to view a detailed status of what is occurring. For example, it displays the data destination folder, the upload method being used, and the upload progress. Click **Hide status viewer** to return ZOLL Data Retriever to its original state.





# Reading from card reader



- 1. Insert the defibrillator's flash card into the card reader.
- 2. In ZOLL Data Retriever, select Card Reader.



- 3. Click **Upload**.
- 4. The upload initiates, measured by a progress bar. Depending on the size of the record, the transfer should take between 30 seconds and a couple of minutes. If necessary, you can cancel an upload.



# **Reading from serial**



- 1. Connect the defibrillator to the ZOLL Data Retriever workstation's serial port.
- 2. On the defibrillator, press and hold the leftmost softkey and turn on the defibrillator. Continue holding the softkey until the System Utilities screen is displayed, and then press **Upload Card**.
- 3. In ZOLL Data Retriever, select **Serial**, and then click **Upload**.



- **4.** On the defibrillator Upload screen, press **Send**. (On E Series, you will need to press **RS-232** before pressing **Send**).
- 5. Click Upload.
- 6. The upload initiates, measured by a progress bar. Depending on the size of the record, the transfer should take between 30 seconds and a couple of minutes. If necessary, you can cancel an upload.



# **Reading from Bluetooth**



- 1. Position the defibrillator near the Bluetooth-enabled ZOLL Data Retriever workstation (Bluetooth is omni-directional and has a range of 20 30 feet).
- On the defibrillator, press and hold the leftmost softkey and turn on the defibrillator. Continue holding the softkey until the System Utilities screen displays, and then press **Upload Card**. On the Upload screen, press **Send**. (On E Series, you will need to press **Bluetooth** before pressing **Send**).





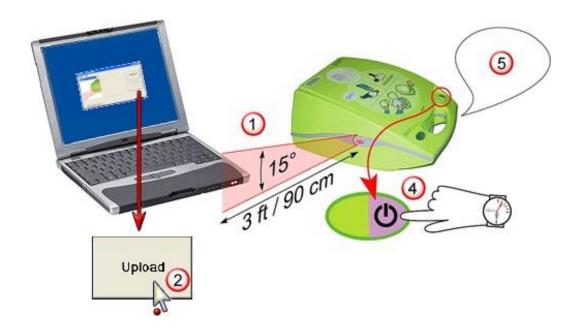
- 3. In ZOLL Data Retriever, select **Bluetooth**, and then click **Upload**.
- 4. Click the Discover button to search for ZOLL defibrillators within Bluetooth range. If more than one defibrillator is found select the correct one from the list and click **OK**.



5. The upload initiates, measured by a progress bar. Depending on the size of the record, the transfer should take between 30 seconds and a couple of minutes. If necessary, you can cancel an upload.



# **Reading from infrared**



- 1. Position the AED Plus or AED Pro so that its infrared port lines up with the RescueNet Code Review workstation's infrared port or reader.
- 2. In ZOLL Data Retriever, select Infrared, and then click **Upload**.



- 3. On the defibrillator, press and hold **On**.
- 4. Keep holding **On** until you hear the defibrillator say, "Non-rescue mode. Communications established."
- The upload initiates, measured by a progress bar. Depending on the size of the record, the transfer should take between 30 seconds and a couple of minutes. If necessary, you can cancel an upload.



# Reading from USB drive



#### **AED Pro transfer to USB**

- Remove the battery cover from the top of AED Pro by releasing the front latch and lifting up on the cover.
- 2. Press and hold the Power button on the AED Pro for 5 seconds.
- 3. Press the left softkey labeled **USB**.
- 4. Press the left softkey labeled **New**.
- 5. Insert USB device into the USB port located above the battery in upper right corner. (You may need to remove the rubber USB port protector.)
- 6. The defibrillator recognizes the device is inserted and downloads the data. Itannounces "Data download complete."
- 7. Remove the USB device and insert into the USB port on your computer.
- Continue to "Data Retriever Upload from USB" on following page.

#### Propag M/MD and X Series transfer to USB

1. On the defibrillator, follow the instructions in the Operator's Guide to copy available cases from the device to a removable USB device.

For instructions on how to copy to a removable USB device, see:

- X Series™ Operator's Guide 9650-001355-01 Rev. B
- Propag® MD Operator's Guide 9650-0802-01 Rev. C
- Propag® M Operator's Guide 9650-0803-01 Rev. B
- 2. Insert the USB device into the USB port on your computer.
- 3. Continue to "Data Retriever Upload from USB".





# **Data Retriever Upload from USB**

- 1. In ZOLL Data Retriever, select USB drive, and then click **Upload**.
- 2. Select the drive letter of the USB device and click **OK**.



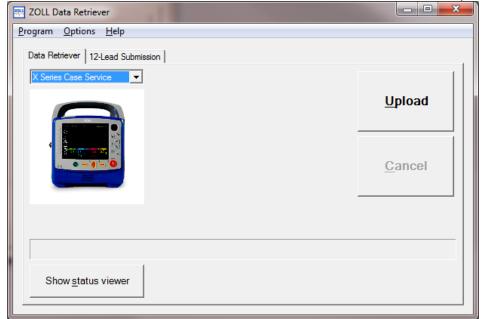
Once the cases are transferred you will be prompted to erase the files from the USB drive.





# Reading from X Series Wi-Fi

1. In the ZOLL Data Retriever, select X Series Case Service from the drop-down list.



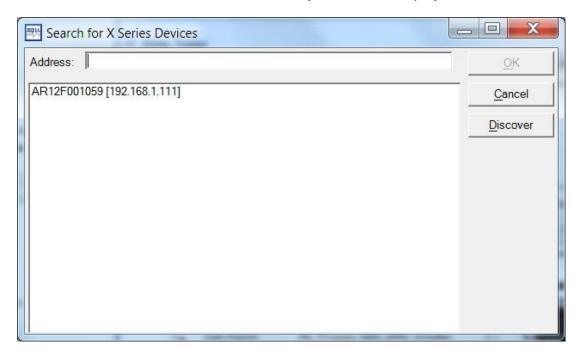
2. Click **Upload**. The Search for X Series Devices dialog box opens.



**Note:** If Data Retriever is configured to use X Series static IP, the Search for X Series Devices dialog is skipped and the upload process jumps to step

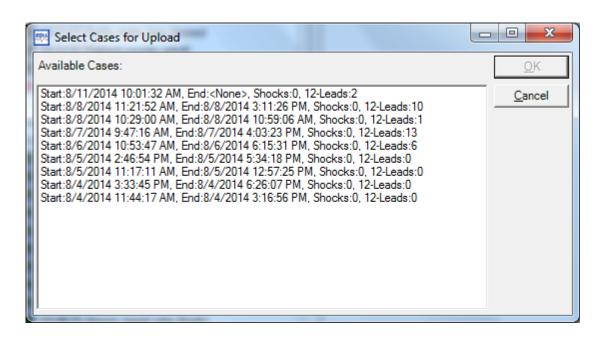


3. Click **Discover**. A list of X Series devices on your network displays.



- 4. Click to highlight the desired X Series device using the medical device serial number identifier and then click **OK**.
- 5. A list of cases displays.





- 7. Select one or more cases to transfer and click OK.
- 8. The ZOLL Data Retriever screen reappears. Depending on the size of the record, the transfer should take between 30 seconds and a couple of minutes. If necessary, you can cancel an upload.

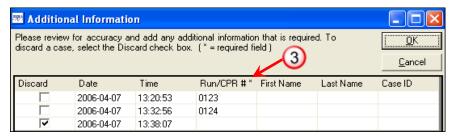


# Finishing the upload

1. When ZOLL Data Retriever finishes uploading the defibrillator record, the system displays a success message.



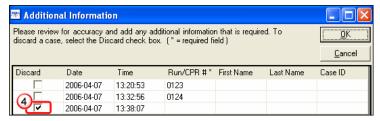
2. If configured, you might be asked additional information.



3. If a field is required, its field name is marked with an asterisk. If you don't add that information and try to click OK, the following message displays.



4. Again, if configured, you might be able to discard cases. For example, you might want to discard cases created when the defibrillator was briefly turned on and then off again.



When you click OK and required information has been satisfied, a data entry successful dialog displays.





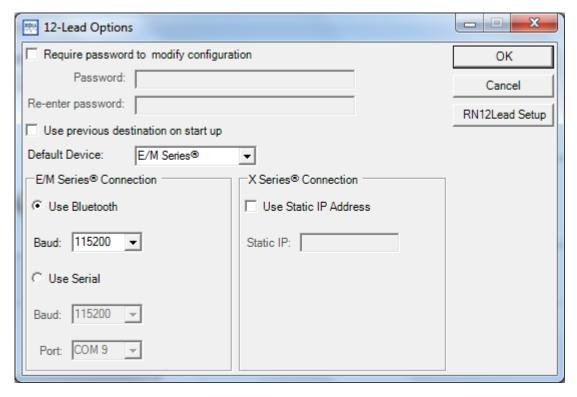
# **Transmitting 12-Leads**

Prior to receiving and transmitting for the first time, Data Retriever must have the defibrillator transfer method and 12-Lead server settings configured.

# **Configuring 12-Lead Transmission**

### **Options > 12-Lead Submission**

 In the banner at the top of the page, click Options >12-Lead Submission. The 12-Lead Options page opens.



- 2. **Require password to modify configuration**: Check this box to require users to enter a password before they can modify the configuration.
- 3. **Use previous destination on start up:** Select this option if you want the application to launch with a default destination already selected instead of requiring the user to select a destination. The default selection will be the last user-selected destination from the previous trip.
- 4. **Default Device**: You can select either the E/M Series or the X Series to be the default defibrillator that displays when you start the application.

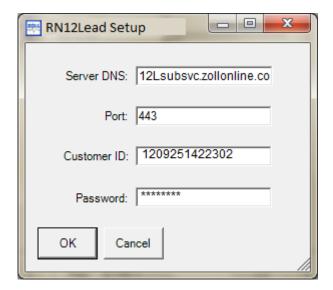


- 5. **E/M Series Connection**: If you are retrieving data from an E or M Series, you must select a connectivity method, Bluetooth or Serial, and enter connectivity information for that method.
- 6. **X Series Connection:** Select Use Static IP Address and enter the IP Address of the X Series to skip the discovery process and always connect to the same IP address.



**Note:** For information on how to configure the baud rate on the defibrillator, refer to the defibrillator's Operator's Guide.

7. Click **RN12Lead Setup** on the bottom left corner of the page. The RN12Lead Setup page displays.



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**Note**: The Customer ID and password in Data Retriever and RescueNet 12-Lead must match.

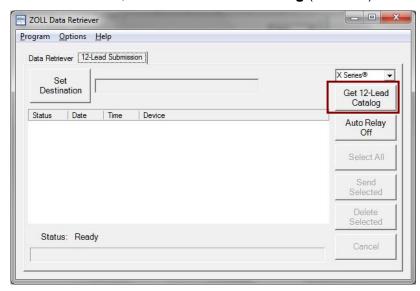
- 6. In the RN12Lead Setup page:
  - a. **Server DNS**: Enter the address for your DNS Server
  - b. **Port**: Enter the port for the server
  - c. **Customer ID**: Enter the Customer ID that matches the Customer ID entered on the RecuseNet 12-Lead Configuration page.
  - d. **Password**: Enter the password that matches the password entered on the RescueNet 12-Lead Configuration page.
  - e. To save your configuration changes, click **OK**.
- 7. Click **OK** to save your changes.



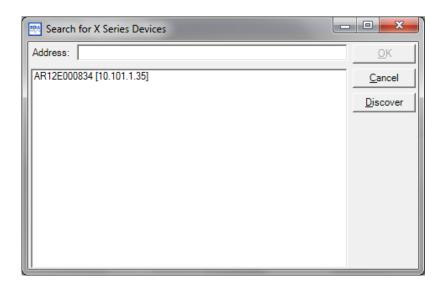
# **Retrieving 12-Leads**

#### **X Series**

1. In Data Retriever, click Get 12-Lead Catalog (X Series).

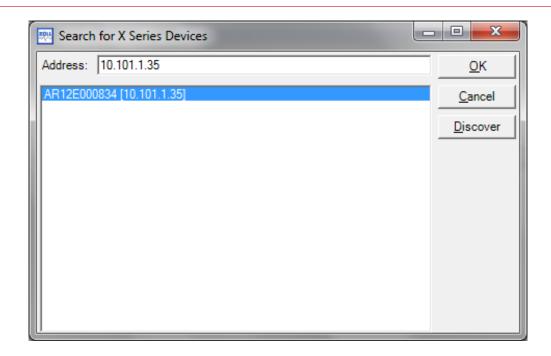


2. The Search dialog appears.

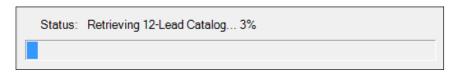


3. Select the desired defibrillator from the list. This populates the IP address of the defibrillator in the address field. Click **OK**.

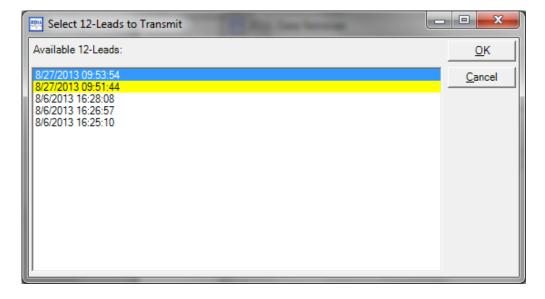




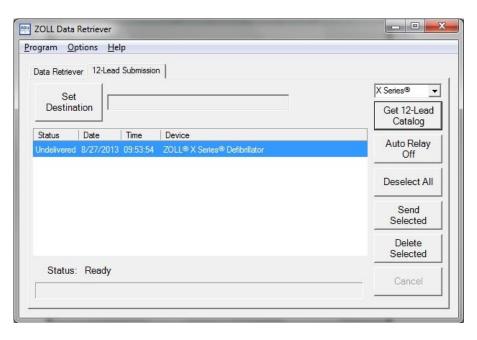
4. The status bar shows the upload progress of the 12-Lead Catalog list.



- 5. When the upload is complete, the system lists all the 12-Leads that are available on the X Series. To make it easier to choose the desired 12-Lead, the system stores the list with the newest 12-Lead on top and already selected. All 12-Leads from the current patient highlight in yellow. You may select one or more 12-Leads by clicking on each one separately. Click **OK** after you are done making your selection.
- 6. The system displays the selected 12-Leads on the main dialog.

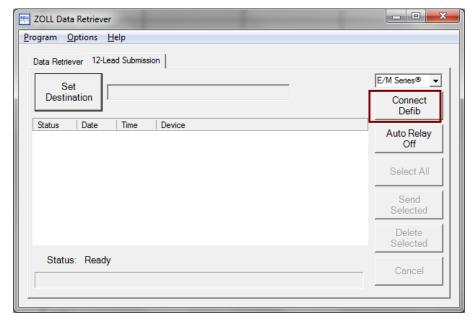






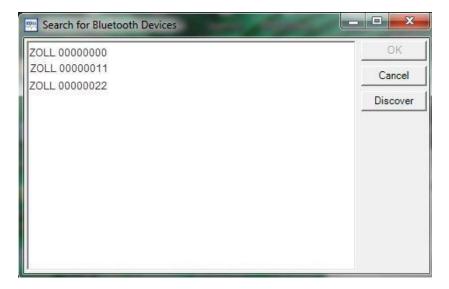
#### E / M Series

1. In Data Retriever, click Connect Defib.

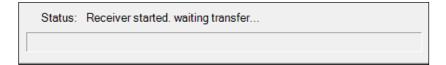




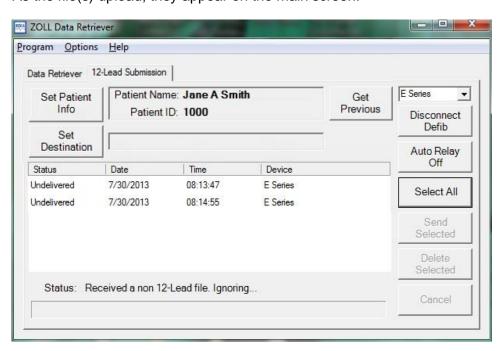
2. If connecting via Bluetooth, the Search for Bluetooth Devices dialog opens and a list of available defibs displays.



3. Click the device to select it. The system displays the status of the transfer in the status field at the bottom of the screen.



4. As the file(s) upload, they appear on the main screen.

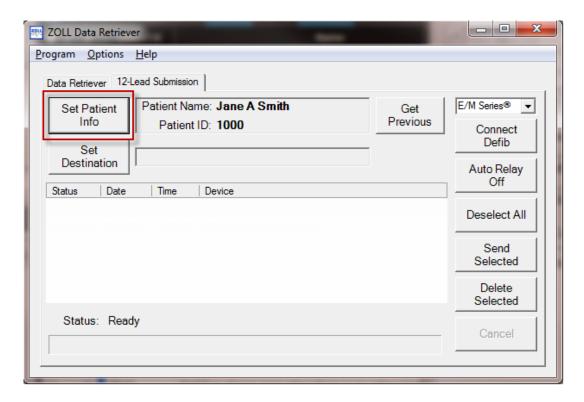




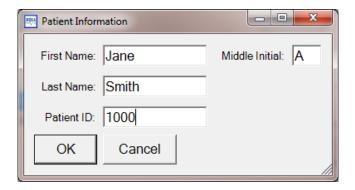
# **Adding Patient Information**

Use the following steps to add the patient's name and ID. This information displays on the 12-Lead Details page of RescueNet 12-Lead.

1. Click Set Patient Information.



2. The Patient Information window displays. Enter the patient information and click **OK**.

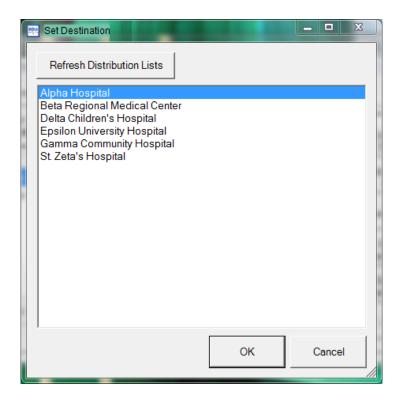




# **Transmitting 12-Leads**

Before a 12-Lead can be transmitted either manually or automatically, a destination must be set.

 Click Set Destination. The system pulls the distribution list from RescueNet 12-Lead and displays available distribution lists on the Set Destination dialog



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**Note**: If a distibution list is missing, click Refresh Distribution lists to initiate the system to pull the list from the server again.

Select a destination and click **OK**. The name you select appears in the field next to the Set Destination

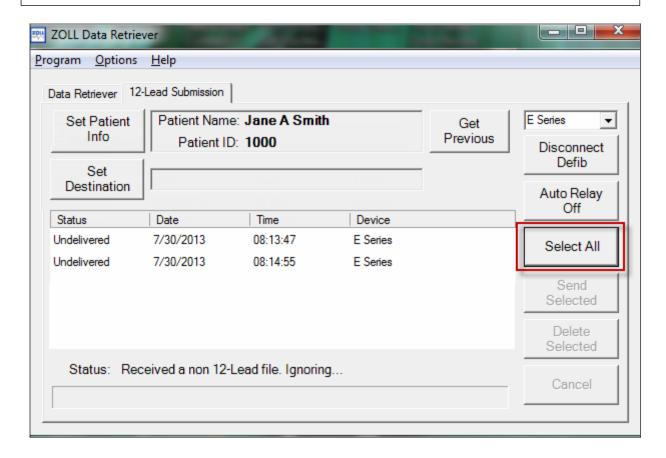




3. To manually transmit files, select one or more files and tap Send Selected or use the Select All button to send all the files. If Auto Relay is set to on, the system automatically transmits the 12-Leads to the destination you selected. If Auto Relay is set to off, the 12-Leads remain on the system until you select the files you want to transmit and click Send.

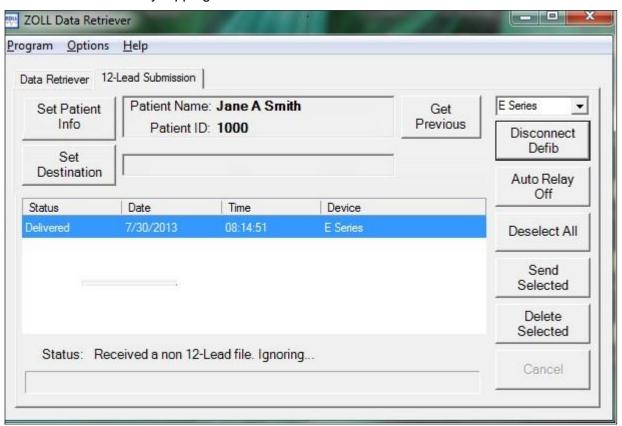


**Note**: If Auto Relay is set to on and a destination is not set, the files remain on the system until you select a destination.





4. After Data Retriever delivers the file(s), the Status column reads Delivered. You can delete one or all files by tapping **Delete Selected**.





# **Getting help**

# **Technical and Sales support**

For customers in the United States, contact ZOLL Medical Corporation at the following address, telephone numbers, e-mail address, fax number, or URL if you have questions about using the RescuNet software or want information about software sales, upgrades, and support contracts:

ZOLL Medical Corporation 269 Mill Road Chelmsford, MA 01824-4105 USA Telephone: toll free (800) 348-9011 or (978) 421-9655

E-mail: <a href="mailto:supportdata@zoll.com">supportdata@zoll.com</a>

Fax: (978) 421-0015 Web: <u>www.zoll.com</u>

For customers in all other locations, either send e-mail to <a href="mailtosupportdata@zoll.com">supportdata@zoll.com</a>, or contact your nearest authorized local ZOLL representative. International offices: <a href="mailtosupportdata@zoll.com">https://www.zoll.com/contact/worldwide-locations</a>.