
Setting Up Your Wireless Configuration (for units equipped with Wi-fi)

This section describes how to set up a wireless connection for your AED for uploading both clinical archives and the device history. In this section there are two procedures to choose from based on your software version:

- Setting Up Your Wireless Configuration (for software versions 03.03.xxx.yyy and lower). See the following procedure.
- Setting Up Your Wireless Configuration (for software versions 04.03.xxx.yyy and higher). See page 79.

Setting Up Your Wireless Configuration (Software version 03.03.xxx.yyyy and lower)

Wireless settings are accessible when the ZOLL AED 3 defibrillator is in AED Management Mode; they are located in the Supervisor menu for advanced users. You need a six-digit pass code to enter the Supervisor menu (see "Set Supervisor Passcode" on page 66 for more information). The configuration setup has two options for both clinical archives and device history:

- **Quick Setup** - For users with a simple configuration using the default settings.
- **IT Setup** - For users with a more complex configuration using specific wireless settings.

NOTE Prior to setting up your clinical archive configuration, visit zollonline.com to create a ZOLL Case Review account.

NOTE Prior to setting up your device history configuration, refer to the PlusTrac Activation Certificate (in your documentation folder) for instructions on how to register for AED Program Management.

You can also automatically configure the Wi-Fi settings for the AED by downloading a configuration file directly from a USB flash drive. For detailed information on how to do this, see "Importing Files from a USB Flash Drive" on page 18.

For IT Setup Only

Client certificates are needed for the Wi-Fi configuration setup only if you are using the TLS method of Wi-Fi authentication. When you select TLS during the Wi-Fi setup, you will need to select a client certificate as part of the setup process.

Additional root certificates are only needed if you are not using the ZOLL standard Self-Signed (SSL) Certificate. If you are not using an SSL Certificate, you need to import the root SSL certificate to use either before you start the Wi-Fi configuration, or during the process of setting up the configuration. For detailed information on how to import a root certificate, see "Importing Files from a USB Flash Drive" on page 18.

ZOLL supports the following root and client certificates:

Root Certificates	Client Certificates
.pem (b64 encoded)	.pfx (binary)
.der (binary)	
.p7b (Microsoft Chained Certificate)	



Device Configuration icon

Entering Supervisor Configuration Mode

To enter configuration mode, follow the steps below:

1. Press and hold down the On/Off button for more than 5 seconds. Then press the Device Configuration icon to access the configuration window.
2. Press the Supervisor icon, and enter your six-digit passcode. You will need to set up the configuration settings for both the clinical archives as well as the device history. See the following sections for step-by-step instructions on both of these configuration setups.



Supervisor Access icon

Setting Up Clinical Archive Wi-Fi Configuration

Press the Clinical Archive Wi-Fi icon to access the Select Wi-Fi Setup Level window and make one of the following selections:



Clinical Archive Wi-Fi icon

- **Quick Setup** - for a simple configuration using the default settings (go to "Quick Setup for Clinical Archives" below).
- **IT Setup** - for a more complex configuration using non-standard wireless setup settings (go to "IT Setup for Clinical Archives" on page 73).

Quick Setup for Clinical Archives

1. Press the Quick Setup button to access the Clinical Archive Quick Settings window and enter the applicable information in the following fields:



Wireless button

- **Network (SSID)**--Press the wireless button to the right of this field to search for available wireless networks. Select a network from the list and press **OK**.
Alternately, you can use the alpha-numeric keypad to enter the SSID (Service Set Identifier) name that identifies your wireless network access point. Press **OK**.
- **Password (Pre-Shared Key)** - Use the alpha-numeric keypad to enter the pre-shared key (password) to the wireless access point. Press **OK**.

- *Server Settings* - Press the Server Settings field to display the Server Settings window. Use the alpha-numeric keypad to enter the following server information.

<i>Address</i>	The default is dxsvc.zollonline.com. If you are using the default server, keep this entry the same. Otherwise, enter the URL address of the host server. Press OK .
<i>User ID</i>	Use the alpha-numeric keypad to enter the username of the host server. Press OK . Note: If you have set up a ZOLL Case Review account on zollonline.com, use the ID you specified for that account.
<i>Passcode</i>	Use the alpha-numeric keypad to enter your password of the host server. Press OK . Note: If you have set up a ZOLL Case Review account on zollonline.com, use the passcode you specified for that account.

2. Press the Test Wi-Fi button in the Clinical Archive Quick Settings window to test the server connectivity.

NOTE If connectivity is not successful, check your wireless configuration settings.

3. Press **Save** at the bottom right of the screen to save the changes. The AED displays the message *SAVING CONFIGURATION, PLEASE WAIT*. When the AED has saved the configuration, it displays the Advanced Configuration window.

IT Setup for Clinical Archives



Clinical Archive
Wi-Fi icon

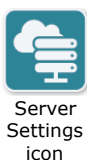
1. Press the Clinical Archive Wi-Fi icon.
2. Press the IT Setup button to access the Clinical Archive Wi-Fi Settings window.



Network
Settings icon

3. Press the Network Settings icon. The Network Settings window displays.
4. In the DHCP (Dynamic Host Configuration Protocol) field, select ON or OFF:
 - If you select ON, all necessary information is obtained from the network. Press **OK** and go to step 6.
 - If you select OFF, all of the network setup fields display in the Network Settings window. Go to step 5 to enter the static information.

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5. You can either keep all of the displayed default settings and press **OK**, or you can enter information in the following fields:
 - *Local IP Address* - Use the numeric keypad to enter your Local IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Gateway IP Address* - Use the numeric keypad to enter your Gateway IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Subnet Mask* - Use the numeric keypad to enter your Subnet Mask (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Primary DNS (Domain Name Server) IP Address* - Use the numeric keypad to enter your Primary DNS IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Secondary DNS IP Address* - Use the numeric keypad to enter your Secondary DNS IP Address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 6. Press **OK** to save the Network settings.



7. Press the Server Settings icon to access the Server Settings window and enter information in the following fields:

- *Mode*: Select URL or IP.
- *Address* - The default is dxsvc.zollonline.com. Use the alpha-numeric keypad to change this default only if your URL/IP is different than the default.

NOTE If you are not using the default value, you need to make an entry in the DNS table for the default value, and you will have to import a new SSL root certificate. For detailed information on how to import a root certificate, see "Importing Files from a USB Flash Drive" on page 18.

- *Port* - The default is 443. Change this default only if your port is different than the default.
- *User ID* - Use the alpha-numeric keypad to enter the User ID. Press **OK**.

NOTE If you have set up a ZOLL Case Review account on zollonline.com, use the ID you specified for that account.

- *Passcode* - Use the alpha-numeric keypad to enter the Passcode. Press **OK**.

NOTE If you have set up a ZOLL Case Review account on zollonline.com, use the Passcode you specified for that account.

8. Press **OK** to save the Server settings.



Profile Settings icon

9. Press the Profile Settings icon and enter information in the following fields in the Profile Settings window:

- *Network (SSID)* - Use the alpha-numeric keypad to enter the SSID (Service Set Identifier) name that identifies your wireless access point.
- *Hidden SSID* - Select ON or OFF.
- *Authentication* - Select the method of Wi-Fi Authentication: PSK (Pre-shared Key), PEAP (Protected Extensible Authentication Protocol), or TLS (Transport Layer Security). See the table below for the next step based on the method you selected.

Wi-Fi Method	Field(s) to Complete
PSK	<i>Password (Pre-Shared Key)</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
PEAP	<i>Username</i> - Use the alpha-numeric keypad to enter the username. Press OK . <i>Password</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
TLS	<i>User Identity</i> - Use the alpha-numeric keypad to enter the user identity. Press OK . <i>Private Key Password</i> - Use the alpha-numeric keypad to enter the password. Press OK . <i>Client Certificate</i> - Choose a client certificate from the list and press OK .

10. Press **OK** to save the Profile settings.

11. Press the **Test Wi-Fi** button in the Clinical Archive Wi-Fi Settings window to test the server connectivity.

NOTE If connectivity is not successful, check your wireless configuration settings.

12. Press **Save** to save the Wi-Fi settings. The AED displays the message *SAVING CONFIGURATION, PLEASE WAIT*. When the AED has saved the configuration, it displays the Advanced Configuration window.

Setting Up Device History Wi-Fi Configuration



Device History Wi-Fi icon

Press the Device History Wi-Fi icon to access the Select Wi-Fi Setup Level window and make one of the following selections:

- **Quick Setup** - for a simple configuration using the default settings (go to "Quick Setup for Device History" below).
- **IT Setup** - for a more complex configuration using non-standard wireless setup settings (go to "IT Setup for Device History" on page 76)

Quick Setup for Device History

1. Press the Device History Wi-Fi icon to access the Device History Quick Settings window and enter the applicable information in the following fields:



Wireless button

- *Network (SSID)*--Press the wireless button to the right of this field to search for available wireless networks. Select a network from the list and press **OK**.
Alternately, you can use the alpha-numeric keypad to enter the SSID (Service Set Identifier) name that identifies your wireless network access point. Press **OK**.
- *Password (Pre-Shared Key)* - Use the alpha-numeric keypad to enter the pre-shared key (password) to the wireless access point. Press **OK**.
- *Server Settings* - Press the Server Settings field to display the Server Settings window. Use the alpha-numeric keypad to enter the following server information.

<i>Address</i>	The default is dxsvc.zollonline.com. If you are using the default server, keep this entry the same. Otherwise, enter the URL address of the host server. Press OK .
<i>User ID</i>	Use the alpha-numeric keypad to enter the user-name of the host server. Press OK .
<i>Passcode</i>	Use the alpha-numeric keypad to enter your password of the host server. Press OK .

2. Press the **Test Wi-Fi** button in the Device History Quick Settings window to test the server connectivity.

NOTE If connectivity is not successful, check your wireless configuration settings.

3. Press **Save** at the bottom right of the screen to save the changes. The AED displays the message *SAVING CONFIGURATION, PLEASE WAIT*. When the AED has saved the configuration, it displays the Advanced Configuration window.

IT Setup for Device History



Device History Wi-Fi icon

1. Press the Device History Wi-Fi icon.
2. Press the IT Setup button to access the Device History Wi-Fi Settings window.



Network Settings icon

3. Press the Network Settings icon. The Network Settings window displays.
4. In the DHCP (Dynamic Host Configuration Protocol) field, select ON or OFF:
 - If you select ON, all necessary information is obtained from the network. Press **OK** and go to step 6.
 - If you select OFF, all of the network setup fields display in the Network Settings window. Go to step 5 to enter the static information.



Profile
Settings
icon

9. Press the Profile Settings icon and enter information in the following fields:

- *Network SSID* - Use the alpha-numeric keypad to enter the SSID (Service Set Identifier) name that identifies your wireless access point.
- *Hidden SSID* - Select ON or OFF.
- *Authentication* - Select the method of Wi-Fi Authentication: PSK (Pre-shared Key), PEAP (Protected Extensible Authentication Protocol), or TLS (Transport Layer Security). See the table below for the next step based on the method you selected.

Wi-Fi Method	Field(s) to Complete
PSK	<i>Password (Pre-Shared Key)</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
PEAP	<i>Username</i> - Use the alpha-numeric keypad to enter the username. Press OK . <i>Password</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
TLS	<i>User Identity</i> - Use the alpha-numeric keypad to enter the user identity. Press OK . <i>Private Key Password</i> - Use the alpha-numeric keypad to enter the password. Press OK . <i>Client Certificate</i> - Choose a client certificate from the list and press OK .

10. Press **OK** to save the Profile settings.

11. Press the Test Wi-Fi button in the Device History Wi-Fi window to test the server connectivity.

NOTE If connectivity is not successful, check your wireless configuration settings.

12. Press **Save** to save the Wi-Fi settings. The AED displays the message *SAVING CONFIGURATION, PLEASE WAIT*. When the AED has saved the configuration, it displays the Advanced Configuration window.

Setting Up Your Wireless Configuration (Software version 04.03.xxx.yyyy and higher)

Wireless settings are accessible when the ZOLL AED 3 defibrillator is in AED Management Mode; they are located in the Supervisor menu for advanced users. You need a six-digit pass code to enter the Supervisor menu (see "Set Supervisor Passcode" on page 66" for more information). The Wi-Fi setup requires four types of settings:

- **Network Settings** - Contains IP Address information used to transmit data via Wi-Fi.
- **Access Point List** - Contains up to 25 profile settings for access points used to transmit data via Wi-Fi.
- **Clinical Archive Settings** - Contains settings required to transmit clinical archive files.
- **Device History Settings** - Contains settings required to transmit the device history file.

NOTE Data will not be transmitted if no access points are defined.

NOTE Prior to setting up your clinical archive configuration, visit zollonline.com to create a ZOLL Case Review account.

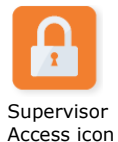
NOTE Prior to setting up your device history configuration, refer to the PlusTrac Activation Certificate (in your documentation folder) for instructions on how to register for AED Program Management.

You can also automatically configure the Wi-Fi settings for the AED by downloading a configuration file directly from a USB flash drive. For detailed information on how to do this, see "Importing Files from a USB Flash Drive" on page 18.

Entering Supervisor Configuration Mode

To enter configuration mode, follow the steps below:

1. Press and hold down the On/Off button for more than 5 seconds. Then press the Device Configuration icon to access the configuration window.
2. Press the Supervisor icon, and enter your six-digit passcode. You will need to set up the configuration settings for both the clinical archives as well as the device history. See the following sections for step-by-step instructions on both of these configuration setups.
3. Press the Wi-Fi icon to access the Wi-Fi Settings window.



Setting Up the Network Settings

1. Press the Network Settings Edit button to access the Network Settings window.
2. In the DHCP (Dynamic Host Configuration Protocol) field, select ON or OFF:
 - If you select ON, all necessary information is obtained from the network. Go to step 4.
 - If you select OFF, all of the network setup fields display in the Network Settings window. Go to step 3 to enter the static information.
3. You can either keep all of the displayed default settings and press **Save**, or you can enter information in the following fields:
 - *Local IP Address* - Use the numeric keypad to enter your Local IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Gateway IP Address* - Use the numeric keypad to enter your Gateway IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Subnet Mask* - Use the numeric keypad to enter your Subnet Mask (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Primary DNS (Domain Name Server) IP Address* - Use the numeric keypad to enter your Primary DNS IP address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
 - *Secondary DNS IP Address* - Use the numeric keypad to enter your Secondary DNS IP Address (format is xxx.xxx.xxx.xxx where xxx = 000-255). Press **OK**.
4. Press **Save** to save the Network settings.

Configuring the Access Point List

1. Press the Access Point List Edit button to display the currently configured access points. To update access point information, select the access point to modify (or select the Add button to enter a new access point) and enter information in the following fields in the Profile Settings window:



- **Network (SSID)** - Press the wireless button located to the right of this field to search for available wireless networks. Select a network from the list and press **OK**. Alternatively, you can use the alpha-numeric keypad to enter the SSID (Service Set Identifier) name that identifies your wireless network access point. Press **OK**.
- **Authentication** - Select the method of Wi-Fi Authentication: PSK (Pre shared Key), PEAP (Protected Extensible Authentication Protocol), or TLS (Transport Layer Security). See the table below for the next step based on the method you selected.

Wi-Fi Method	Field(s) to Complete
PSK	<i>Password (Pre-Shared Key)</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
PEAP	<i>Username</i> - Use the alpha-numeric keypad to enter the username. Press OK . <i>Password</i> - Use the alpha-numeric keypad to enter the password to the wireless access point. Press OK .
TLS	<i>User Identity</i> - Use the alpha-numeric keypad to enter the user identity. Press OK . <i>Private Key Password</i> - Use the alpha-numeric keypad to enter the password. Press OK . <i>Client Certificate</i> - Choose a client certificate from the list and press OK .

*Client certificates are needed for the Wi-Fi configuration setup only if you are using the TLS method of Wi-Fi authentication. When you select TLS during the Wi-Fi setup, you will need to select a client certificate as part of the setup process.

Additional root certificates are only needed if you are not using the ZOLL standard Self-Signed (SSL) Certificate. If you are not using an SSL Certificate, you need to import the root SSL certificate to use either before you start the Wi-Fi configuration, or during the process of setting up the configuration. For detailed information on how to import a root certificate, see "Importing Files from a USB Flash Drive" on page 18.

ZOLL supports the following root and client certificates:

Root Certificates	Client Certificates
.pem (b64 encoded)	.pfx (binary)
.der (binary)	
.p7b (Microsoft Chained Certificate)	

Setting Up Clinical Archive Wi-Fi Configuration

1. Press the Clinical Archive Settings Edit button to access the Clinical Archive Settings window.
2. Press the Server Settings Edit button to display the Server Settings window. Use the alpha-numeric keypad to enter the following server information.

Mode	The default is URL. If you are using the default server, keep this entry the same. If you are using an IP address for the server, change this to IP.
Address	The default is dxsvc.zollonline.com. If you are using the default server, keep this entry the same. Otherwise, enter the URL or IP address of the host server. Press OK . Note: If you are not using the default value, you need to make an entry in the DNS table for the default value, and you will have to import a new SSL root certificate. For detailed information on how to import a root certificate, see "Importing Files from a USB Flash Drive" on page 18.
Port	The default is 443. Change this default only if your port is different than the default.
User ID	Use the alpha-numeric keypad to enter the username of the host server. Press OK . Note: If you have set up a ZOLL Case Review account on zollonline.com, use the ID you specified for that account.
Passcode	Use the alpha-numeric keypad to enter your password of the Host server. Press OK . Note: If you have set up a ZOLL Case Review account on zollonline.com, use the passcode you specified for that account.

3. Press **OK** to save the Server settings.
4. Press the Selected Access Point Edit button and select an access point to use for transmission. If more than one access point is configured, select Any Access Point to allow the AED to transmit via any of the configured access points.
5. Press the **Test Wi-Fi** button to test the server connectivity.
6. Press **Save** to save the Wi-Fi settings.

Setting Up Device History Wi-Fi Configuration

1. Press the Device History Settings Edit button to access the Device History Settings window.
2. Press the Server Settings Edit button to display the Server Settings window. Use the alpha-numeric keypad to enter the following server information.

Mode	The default is URL. If you are using the default server, keep this entry the same. If you are using an IP address for the server, change this to IP.
Address	The default is dxsvc.zollonline.com. If you are using the default server, keep this entry the same. Otherwise, enter the URL or IP address of the host server. Press OK .
Port	The default is 443. Change this default only if your port is different than the default.
User ID	Use the alpha-numeric keypad to enter the username of the host server. Press OK .
Passcode	Use the alpha-numeric keypad to enter your password of the Host server. Press OK .

3. Press **OK** to save the Server settings.
4. Press the Selected Access Point Edit button and select an access point to use to for transmission. If more than one access point is configured, select Any Access Point to allow the AED to transmit via any of the configured access points.
5. Press the **Test Wi-Fi** button to test the server connectivity.
6. Press **Save** to save the Wi-Fi settings.