

**SETUP AND OPERATING
INSTRUCTIONS FOR THE**

DX-dashboard****TM

Version 2.0

SOFTWARE

Including

**DX-Dashboard Setup Tool
DX-Assistant**

**Manual Version 2
December 2016**



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Table of Contents

1	Updates from the Previous Version.....	3
2	DX-Dashboard Software and DX-Dashboard Setup Tool Introduction.....	4
2.1	DX-Assistant Network Server	4
2.2	DX-Dashboard Setup Tool	4
2.3	Setup and Configuration Guides.....	4
3	Configuration.....	5
3.1	Account Registration	5
3.2	Using the DX-Dashboard Setup Tool.....	7
3.3	Device Settings Section	10
3.3.1	Communications Section.....	10
3.3.2	Firmware Update Section	12
3.3.3	Proxy Settings Section.....	13
3.4	Setup Screen	14
3.5	About Screen.....	15
4	Operation	16
4.1	Signing In to Your DX-Dashboard Account.....	16
4.2	Home Screen.....	17
4.2.1	Home Screen Buttons	19
4.3	Settings Button.....	20
4.3.1	Upload Map or Blueprint.....	20
4.3.2	Email Server Setup – DX Assistant Only.....	21
4.3.3	Setup Email Server Configuration – DX Assistant Only	21
4.3.4	Reset Admin Password.....	24
4.3.4.1	Setup User Account.....	25
4.3.5	Help Section	26
4.3.6	Download Event Button	27
4.4	Software and Download Button.....	28
4.5	Radiation Level Graph Button	29
4.6	Device Configuration Button.....	29
4.6.1	Device Screen.....	30
4.6.2	Properties Screen	31
4.6.3	Alarm Screen	32
4.6.4	Ethernet Screen (Rad-DX only)	33
4.6.5	Wi-Fi Screen (Rad-DX only)	34
4.6.6	SensorNet Mesh Screen.....	35
4.6.7	Firmware Update Screen	36
4.6.8	Proxy Screen.....	37
5	Software Usage Statement.....	38
6	Technical Support.....	38

1 Updates from the Previous Version

This manual supports version 2.0 of the DX-Dashboard software and version 2.0 of the DX-Assistant. Below is a table explaining the primary updates from the previous version.

Feature	Location	Explanation
Updated Device Icons	Home Screen	The icons representing each rad-DX device will change from small round icons to icons that resemble the devices, whether they are the Rad-DX, Mini Rad-DX, or DX Link.
Serial Number Field	Device Settings: Device tab	There is now a field in the Device Settings page where you can add the device's serial number.
Daylight Savings Time	Device Settings: Properties tab	The time can now be adjusted for Daylight Savings time in the Device Settings Properties page.
Device ID and Device Name Display	Device Settings: All tabs	The Device ID and the Device Name are now displayed on all pages under the Device Settings tab.
3rd Party USB Relay Port Configuration	Device Settings: Alarm tab	The Rad-DX can be connected to an external siren/strobe light through an external USB-powered relay port. The current version of Dashboard does not support the configuration necessary for the Rad-DX to communicate with the USB relay port. Using version 2.0 you will be able to configure the Rad-DX to communicate with the USB-powered relay port in the Device Setting Alarm page.
Acknowledge Alarm	Device Settings: Alarm tab	The Acknowledge Alarm feature, when enabled, causes the Rad-DX alarm to "latch" or to stay alarming when a radiation alarm occurs. The device will not stop alarming until the user presses the Acknowledgement popup on the device. This new feature requires the firmware version 265 be updated on your Rad-DXs.
Mac Address	Device Settings: Ethernet tab	The Mac Address for the device is displayed under Device Settings in the Ethernet tab.
Firmware Version Number	Device Settings: Firmware tab	The current version of firmware being used in the device is displayed under Device Settings in the Firmware tab.
Image Size Information	Main Settings screen	The image size/aspect ratio is provided so you don't have to guess on the size of your background image on the Main Settings screen.

2 DX-Dashboard Software and DX-Dashboard Setup Tool Introduction

This manual addresses the setup, configuration, and monitoring of a DX radiation detection system on the DX-Dashboard web application, which may be a cloud version hosted by D-tect Systems or hosted on a DX-Assistant server, which is installed at the customer site. The DX-Dashboard software is accessed from a web browser.

2.1 DX-Assistant Network Server

The DX Assistant is a stand-alone local server specifically designed to support a network of DX enabled radiation detectors inside your own protected firewall. This appliance comes installed with the DX-Dashboard Setup Tool and DX-Dashboard software and allows for flexibility in configuring detectors to communicate via Ethernet and Wi-Fi (if available) and SensorNet Mesh networking options.

When setting up a DX network with the DX Assistant server, please refer to the DX Assistant Setup Guide for complete installation instructions.

2.2 DX-Dashboard Setup Tool

The DX-Dashboard Setup Tool is the PC software required to configure the DX family of products to communicate on your DX-Dashboard account. The DX-Dashboard Setup Tool works for both the D-tect Systems Cloud server and a DX-Assistant server.

2.3 Setup and Configuration Guides

Additional documentation, such as Setup and Configuration Guides, is available to help you set up your DX enabled network of detectors including:

- V025255_04_DX-Dashboard Setup Tool Configuration Guide
- V037076_01_DX-Assistant Setup Guide

3 Configuration

3.1 Account Registration

This section takes you through the process to register for your DX-Dashboard Account and to download the DX-Dashboard Setup Tool. After you register for your DX-Dashboard Account you will be directed to download the DX-Dashboard Setup Tool.

If you are installing the DX-Assistant software on your server, please refer to the DX-Assistant Install Guide as the process to for registering for an account on the DX-Assistant is different from the registering for a DX-Dashboard account on the DX Cloud server.

Please follow the steps outlined below to download this software.

1. Go to the website: <https://dx.dtectsystems.com> and click the “Register” button.



Figure 1: DX-Dashboard Login Webpage

2. Complete the DX Account registration form. The registration form requests contact information as well as a user defined Admin Name and Password. Because you are using the DX-Dashboard to monitor your network of radiation detectors do not download the DX-View software.

DXdashboard

Welcome to the DX Registration

- Register to create a DX Dashboard account and download the DX Dashboard Setup Tool
- Register to download the DX View software

Create Admin Name and Password (required)

First Name:
Last Name:
Company:
Address:
City:
State:
Zip Code:
Telephone:
Email Address:
Comments:

Admin Name:
Admin Password:
Repeat Admin Password:

Type the phrase shown below (required)

Security Phrase:




Help Submit

D-tect
S Y S T E M S

Version 2.0
Beta

Figure 2: DX Registration Webpage

3. An Account Confirmation email will be sent to the specified email address and contains an assigned Customer ID. The email also confirms your Admin Name and Password. Do not lose your Admin Name or Password.
4. Please complete all information fields.
5. Please remember to not click the link to download DX-View.
6. After you receive your email confirmation, please go to the URL <https://dx.dtectsystems.com/web/loginScreen.html> and sign in to your DX-Dashboard account with your Username and Password.
7. Click on the Download Software Icon on the upper right hand section of the Home screen.  Then click on the Download button below the Setup software for configuring D-tect devices for use with the DX Dashboard.
8. If you require a CD to install the DX-Dashboard software, contact us at techsupport@dtectsystems.com.

9. Several installation windows will appear that will require you to click Next, Install, and Finish. You will also be required to accept the Software License Agreement.
10. The installer will place the DX-Dashboard Setup Tool icon on your desktop. Click the icon to launch the program.



Figure 3: DX-Dashboard Desktop Icon

3.2 Using the DX-Dashboard Setup Tool

Each of your devices needs to be set up initially using the DX-Dashboard Setup Tool. Please follow the instructions to configure your Rad-DX, MiniRad-DX, DX-Link, or any other DX enabled device. Please note the process to configure a particular device may vary slightly depending on the communication features that device has.

1. Open the DX-Dashboard Setup Tool by double-clicking on the icon on your desktop.

When the DX-Dashboard Setup Tool runs for the first time, a registration window will display. Fill in your Admin Name, Admin Password, and the URL. The URL for the D-tect Systems online account is: **dl.dtectsystems.net**. Then click “Submit” button. This process requires that your computer is to connect to the Internet.

A screenshot of the DX Registration window. The window has a light blue title bar with the text 'DX Registration'. Below the title bar, the text 'Administrator Username and Password' is displayed. There are two input fields: 'Administrator Username:' and 'Administrator Password:'. Below these fields is a checkbox labeled 'Using DX-Assistant'. At the bottom of the window, there are two buttons: 'Cancel' on the left and 'Submit' on the right.

Figure 4: DX Registration Window

1. If you are not directed to the Home screen, then either your computer is not communicating on the Internet or the Admin Username and/or Admin Password was entered incorrectly. Please try again. If the registration is not successful, please contact tech support at techsupport@dtectsystems.com.
2. After you successfully complete the registration window, the Home screen for the DX-Dashboard Setup Tool will display.

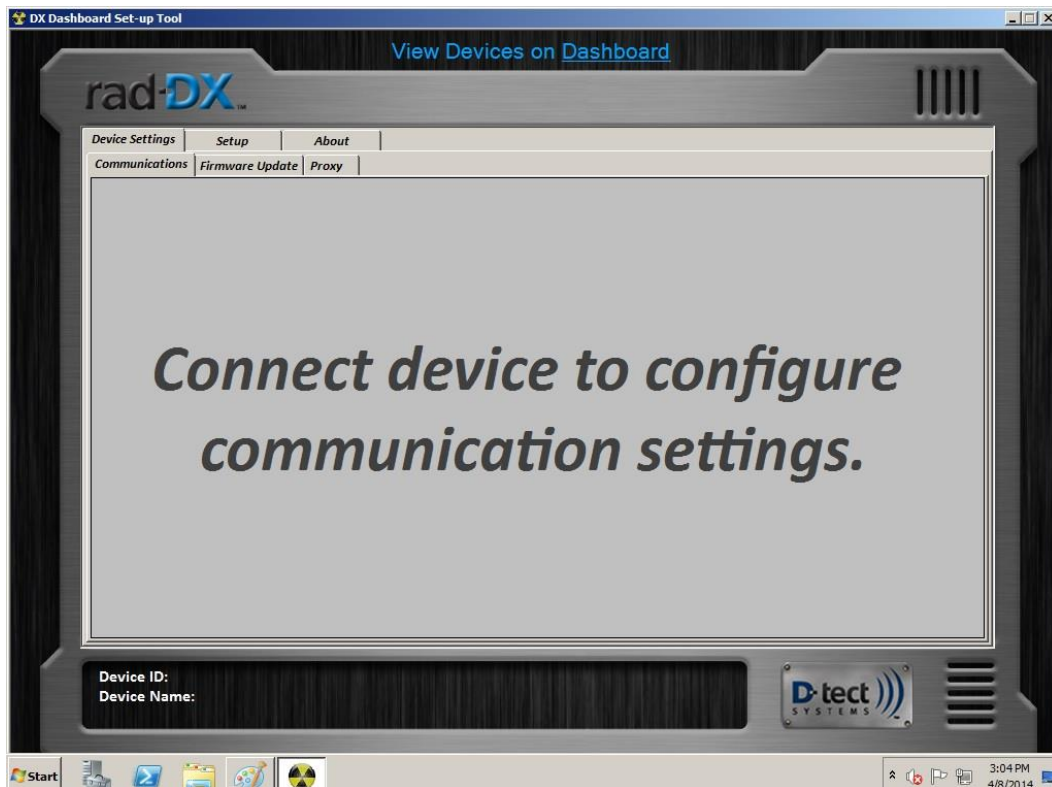


Figure 5: DX-Dashboard Setup Tool Home Screen

3. If you are configuring a Rad-DX, then connect the power cable to the back of the device and to an electrical outlet. Most other DX enabled devices do not require a separate power source.
4. Connect the detector to your computer via the USB cable. A DX-Link can be inserted into a USB port directly.
 - a. If the device is brand new and not tied to any other accounts, the system will automatically assign it to the signed in account.
 - b. If the device was tied to a different account, a message box will pop up and display a locked window with some options.

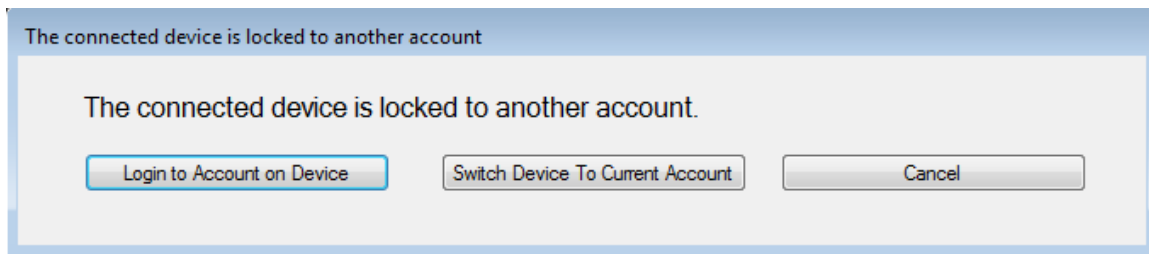


Figure 6: Locked Device Options Screen

- i. Select the “Switch Device to Current Account” button to automatically configure the device to your existing account.
 - ii. Click on “Log in to Another Account” to switch to the account the device is currently using.
 - iii. Select “Cancel” to close the window without changing anything.
5. Log on to your Dashboard account and verify the icon for your device is on the Home screen.

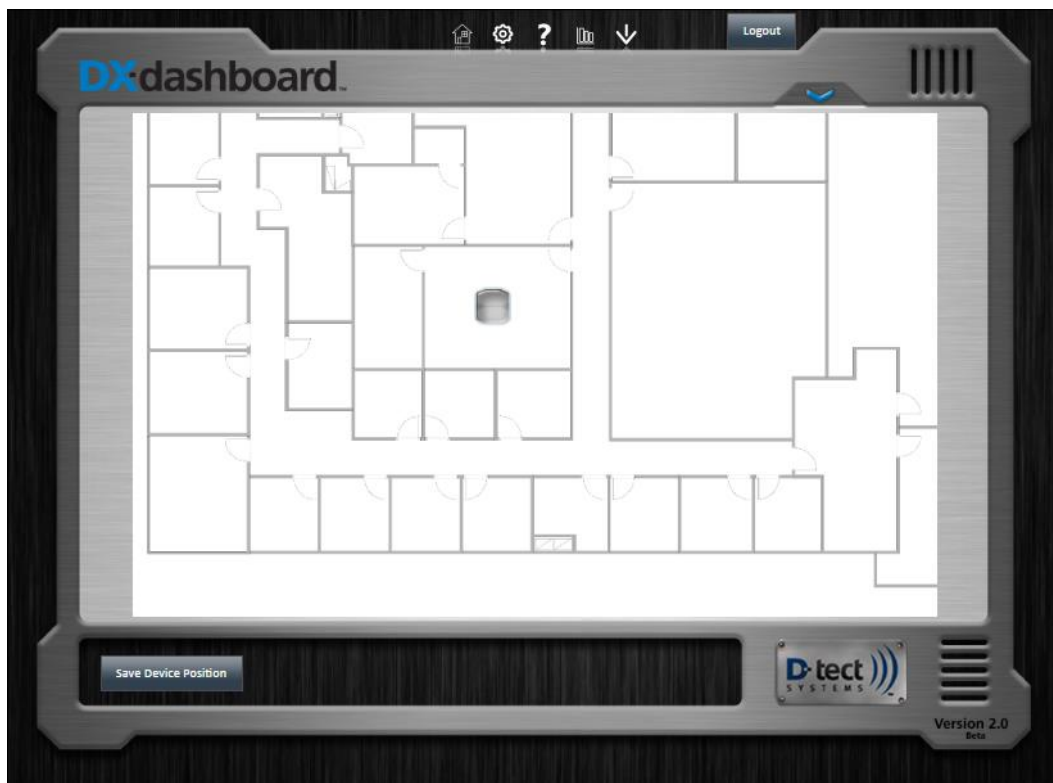


Figure 7: DX-Dashboard Home Screen with Gray Icon

3.3 Device Settings Section

3.3.1 Communications Section

The Communications screen in Device Settings is the default screen that appears once a device is connected via USB.

This screen allows for configuration of the communication protocols for each device. Please be aware that not all DX enabled devices can communicate via Ethernet and Wi-Fi. Devices that only communicate via the SensorNet mesh network must communicate through a device that communicates Ethernet or Wi-Fi to work with the Dashboard account.

The channel (frequency) that the SensorNet Mesh network operates on can also be changed here. If the channel is changed on one device, then all other devices will need to be changed to the same channel to be able to communicate with each other through the Mesh network.

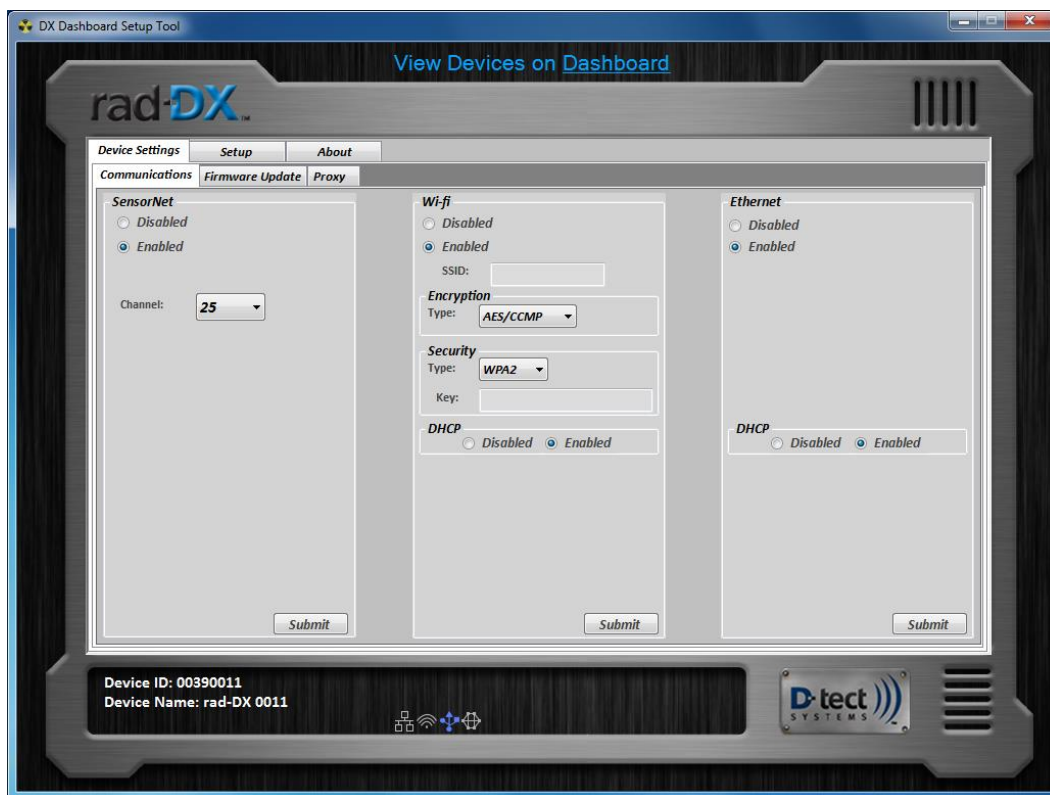


Figure 8: Device Settings: Communication Tab

3.3.1.1 Verification of Configuration

Go back to your DX-Dashboard account and verify that your device is communicating via Ethernet or Wi-Fi as configured. The icon on the Home screen will turn from gray to blue.

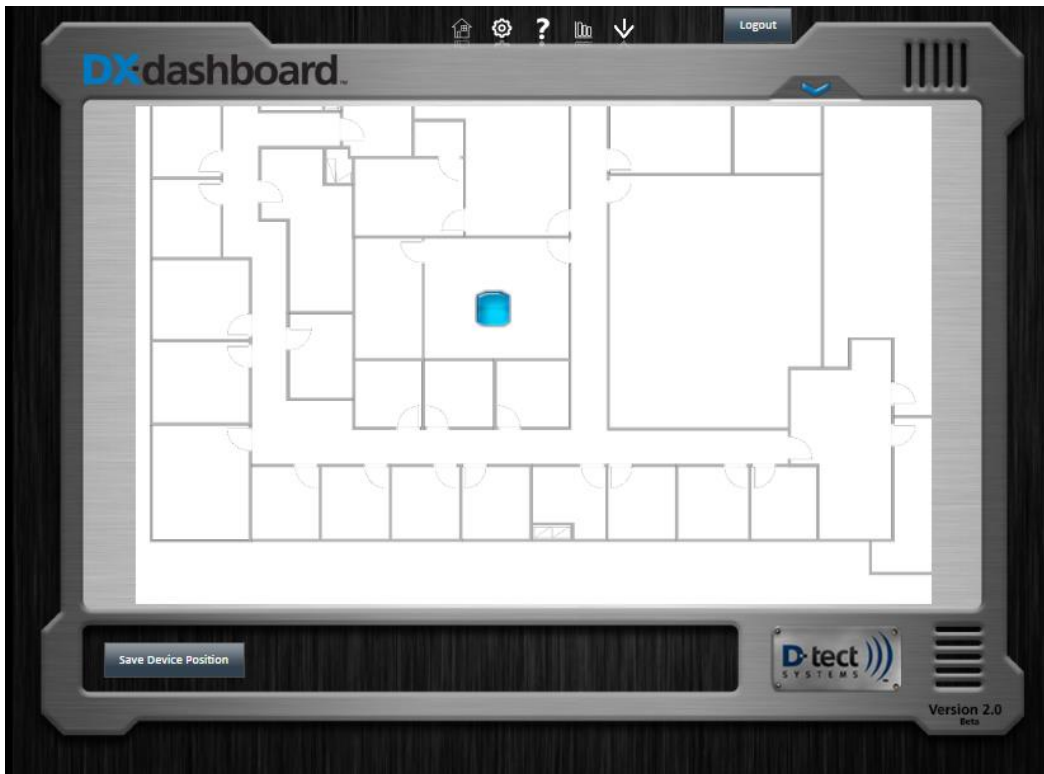


Figure 9: DX-Dashboard Home Screen with Blue Icon

3.3.2 Firmware Update Section

As new firmware versions become available, you will be notified and given instructions to upload a new or updated firmware version to your device. Save the included firmware version in a convenient location. Select the device to be updated, locate the firmware file using the Browse feature, and press submit to update. This update may take several minutes.

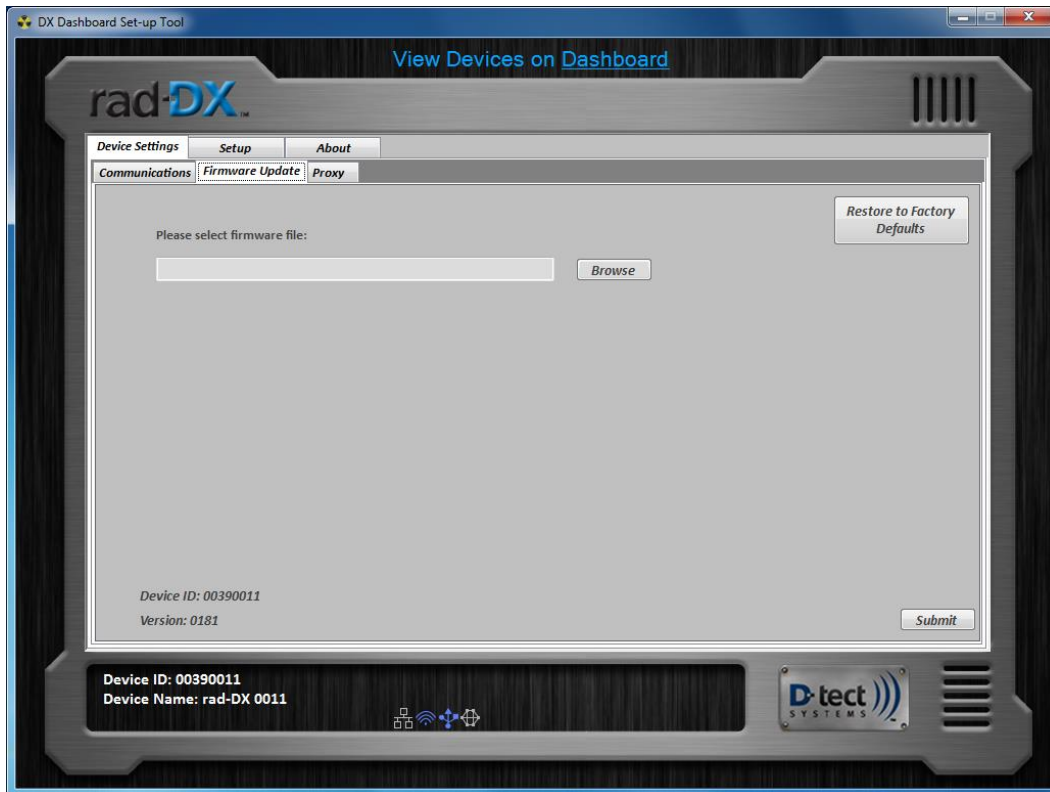


Figure 10: Device Settings: Firmware Update Screen

3.3.3 Proxy Settings Section

If your device needs to connect to the DX-Dashboard server through a proxy server, turn on the “Proxy Enabled” option. This will bring up two fields, “Proxy URL” and “Proxy Port.” Enter the IP address or URL of the proxy server the device is connecting to under “Proxy URL.” Enter the port number of the proxy server under “Proxy Port.” If the proxy requires authentication, turn on the “Authentication Enabled” option. This brings up the fields “Proxy Username” and “Proxy Password.” Enter the proxy server username and password information into these fields, respectively.

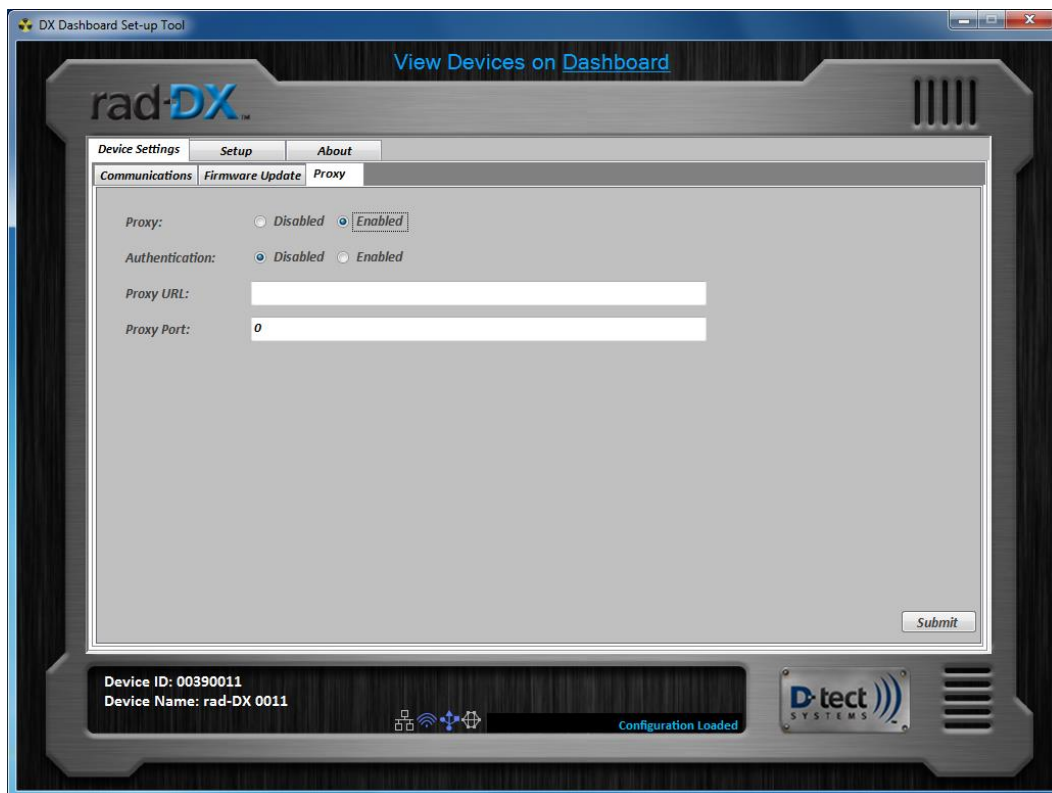


Figure 11: Device Settings: Proxy Settings Window

3.4 Setup Screen

This section displays the Remote Server information such as Administrator Username and Password and Server URL. This information is populated from the pop-up window that appears when the software is first launched. These settings can only be changed when a device is connected via USB cable.

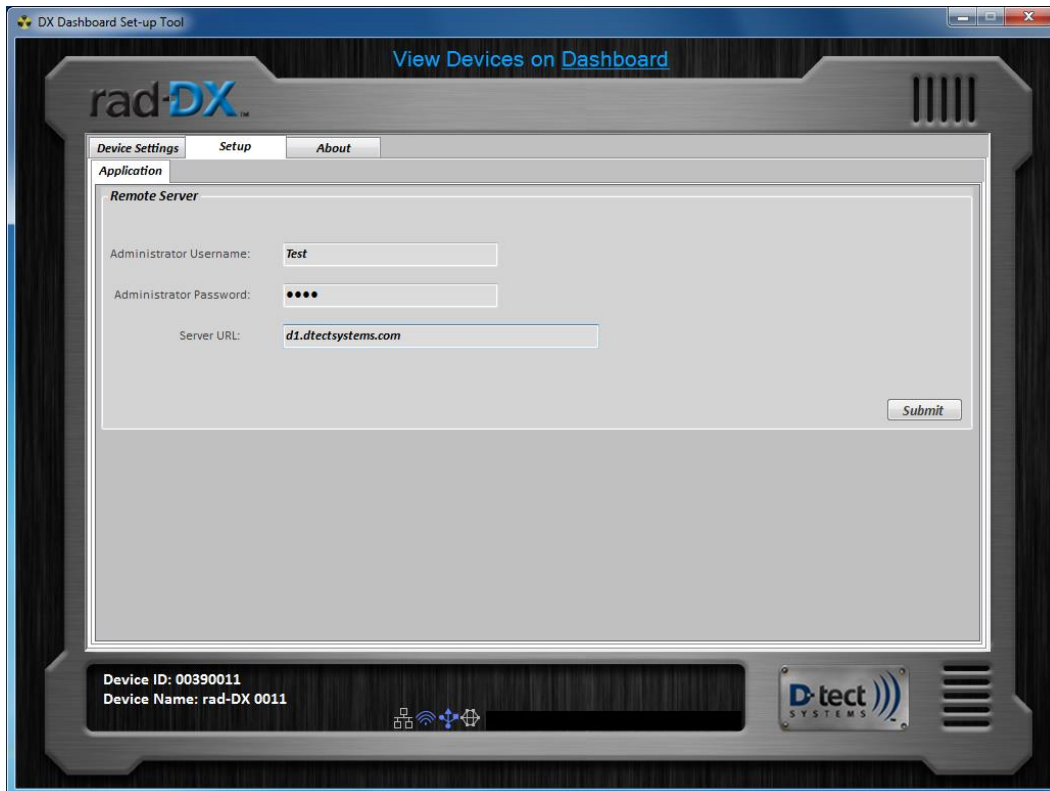


Figure 12: Setup Screen

3.5 About Screen

The About screen displays the software version as well as the technical support contact information.



Figure 13: About Screen

4 Operation

4.1 Signing In to Your DX-Dashboard Account

If your network is on the D-tect Cloud Network, go to <https://dx.dtectsystems.com> on your smart device or computer's internet browser and enter your Username and Password. If your network is local, go to the URL of your DX Assistant Network Server and enter your Username and Password.

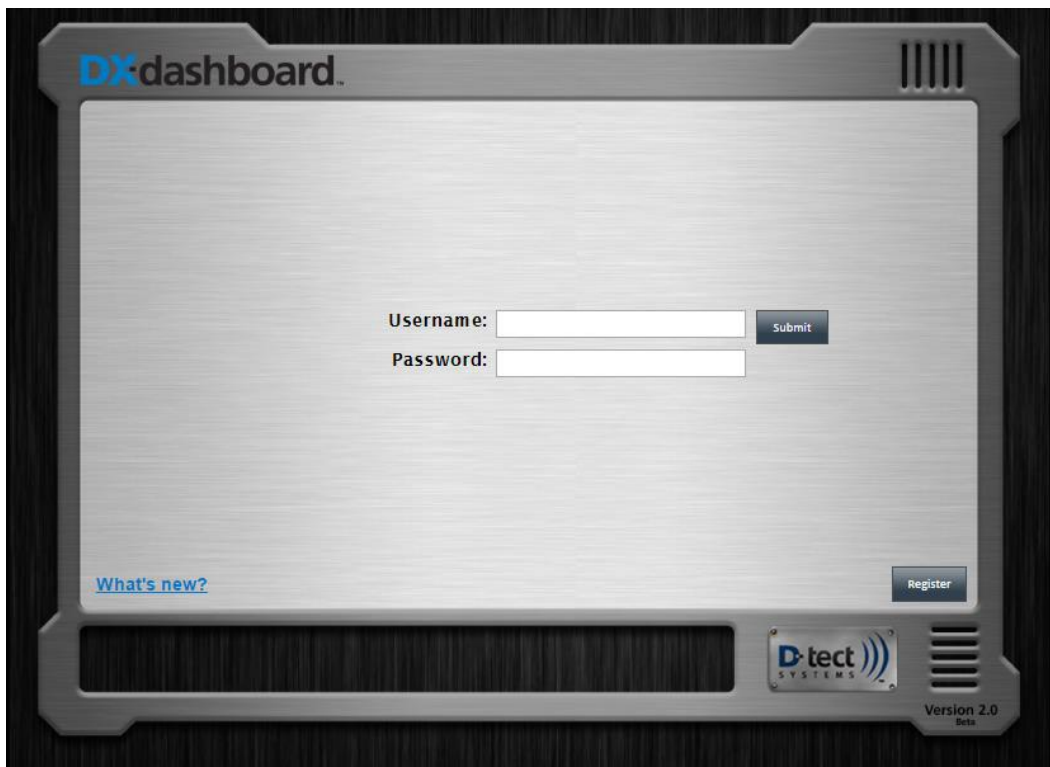


Figure 14: DX-Dashboard Sign-in Screen

4.2 Home Screen

When you open the DX-Dashboard on a PC, smartphone, or tablet and log in, the Home screen will be displayed. The Home screen will show a map or a blueprint and where the devices are located. (See Section 4.3.1 to upload a map or blueprint)

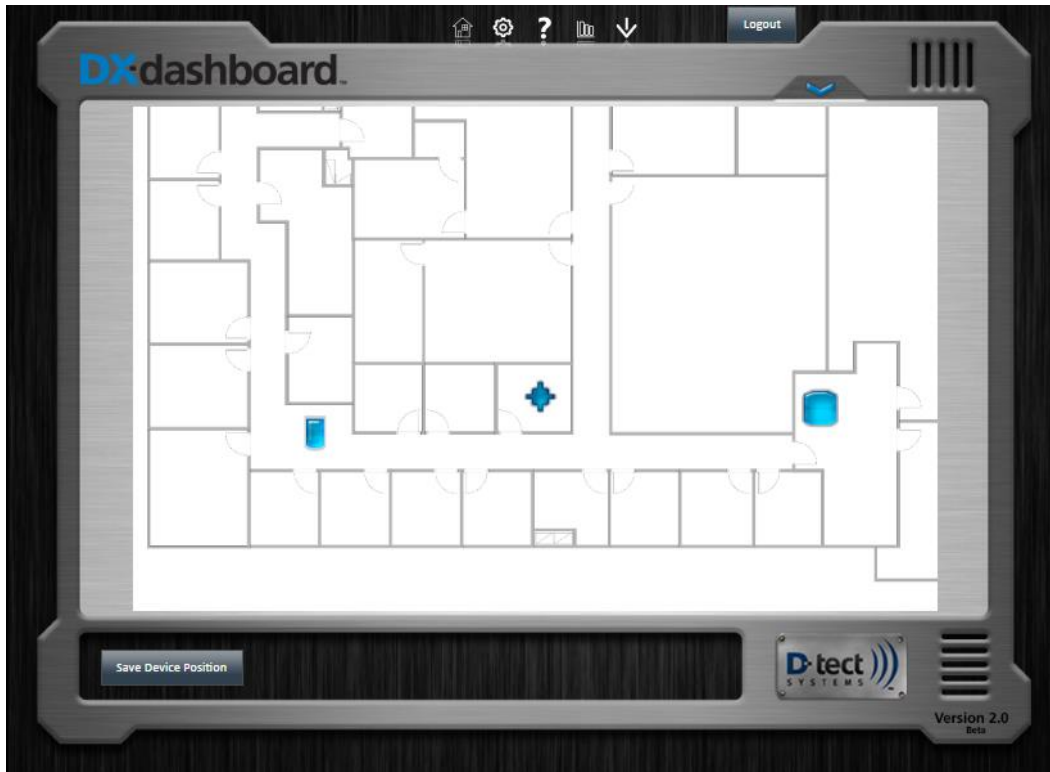


Figure 15: DX-Dashboard Home Screen with one alarming device icon and five normal device icons

During normal operation, each active Rad-DX device in the network will appear as a small blue icon. For the real-time dose rate measurement and device settings, click the button for the detector you want to see. A gray device window will pop up containing information about the unit.




 <p>Normal (non-alarming) device</p>	 <p>Alarming device</p>	 <p>Non-operational or disconnected device</p>
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Table 1: Device Icon Colors





 <p>Rad-DX</p>	 <p>Mini Rad-DX</p>	 <p>DX-Link</p>
---	--	--

Table 2: Device Icons

To access a graph of the current detection values, click on the white Graph button at the bottom left of the screen. To change the settings on the device, click the white gear, Settings, button at the bottom right of the screen. To see a summary of all detectors, click the  button found in the top right (see Figure 17).

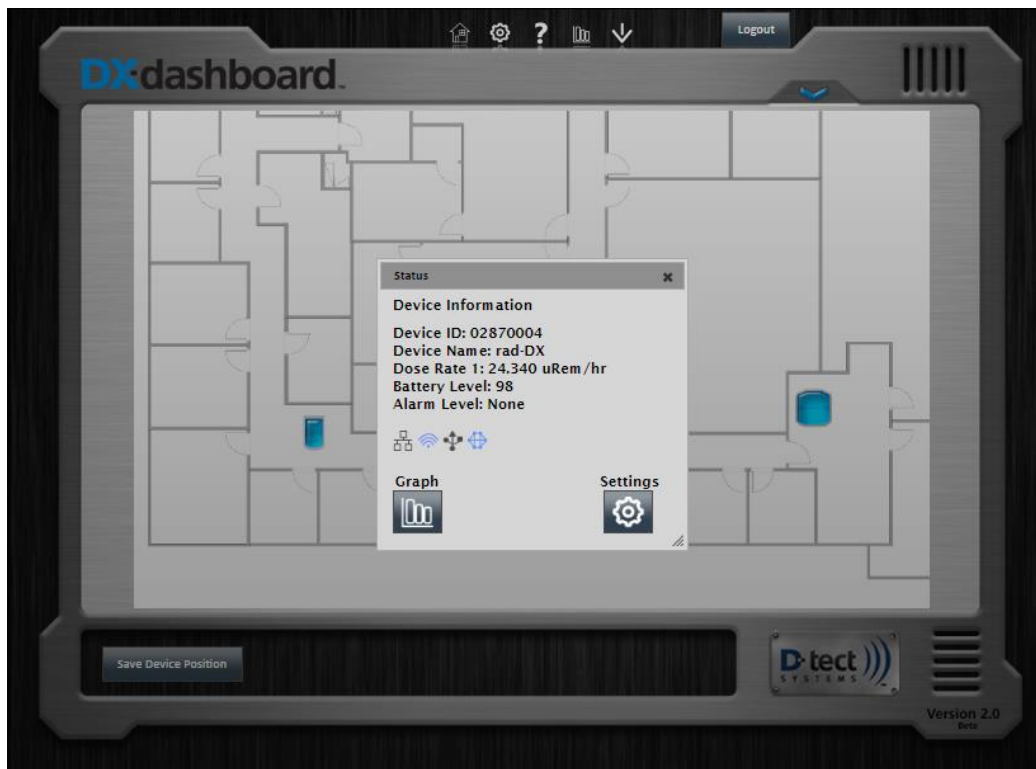


Figure 16: Device Window containing information about a specific device. The Radiation Level Graph button (see Section 0) and Device Settings button (Section 4.6) are labeled.

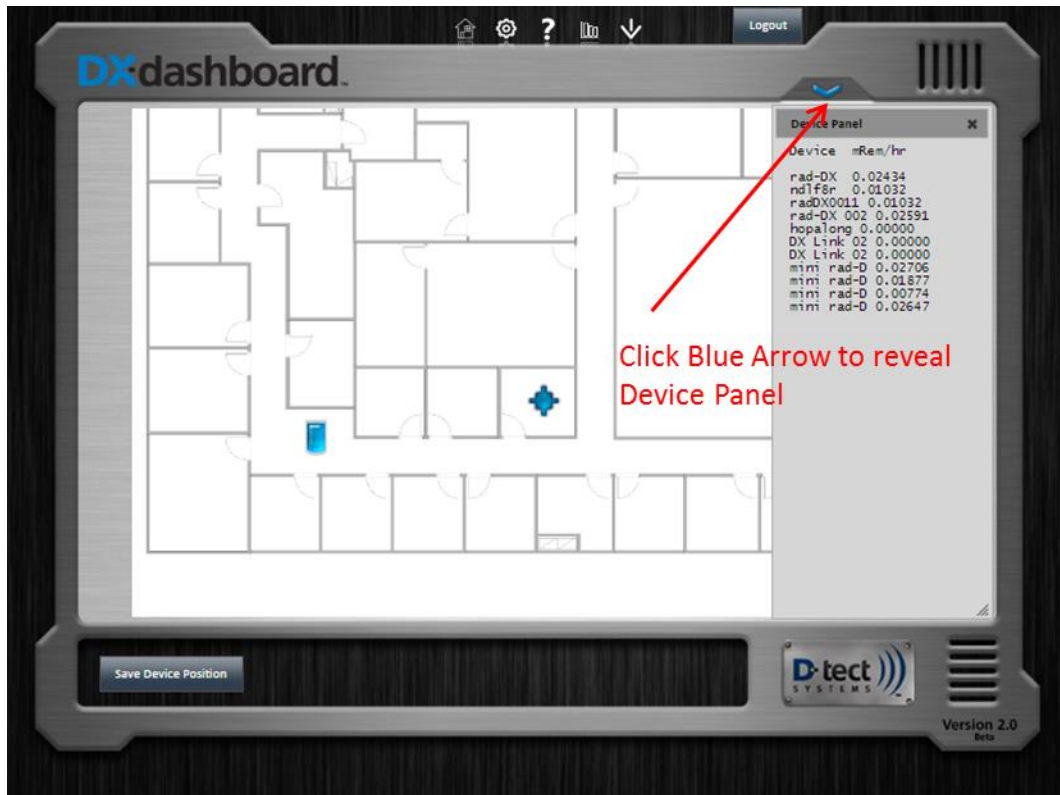


Figure 17: The Device Panel reveals a list of all DX enabled radiation detectors with dose rate information.

4.2.1 Home Screen Buttons

At the top of the Home screen there are six buttons, which are links to the Home, Settings, Help, Event Log, Event Download and Software Download screens. Simply click button and you will enter the respective screen.






				
Home	Settings	Help	Event Download	Software Download

Table 3: DX-Dashboard Windows

4.3 Settings Button

The Settings section is where you upload a floor plan, site map, or satellite image. You can also reset the Admin Password and create a read-only User Account for monitoring purposes.

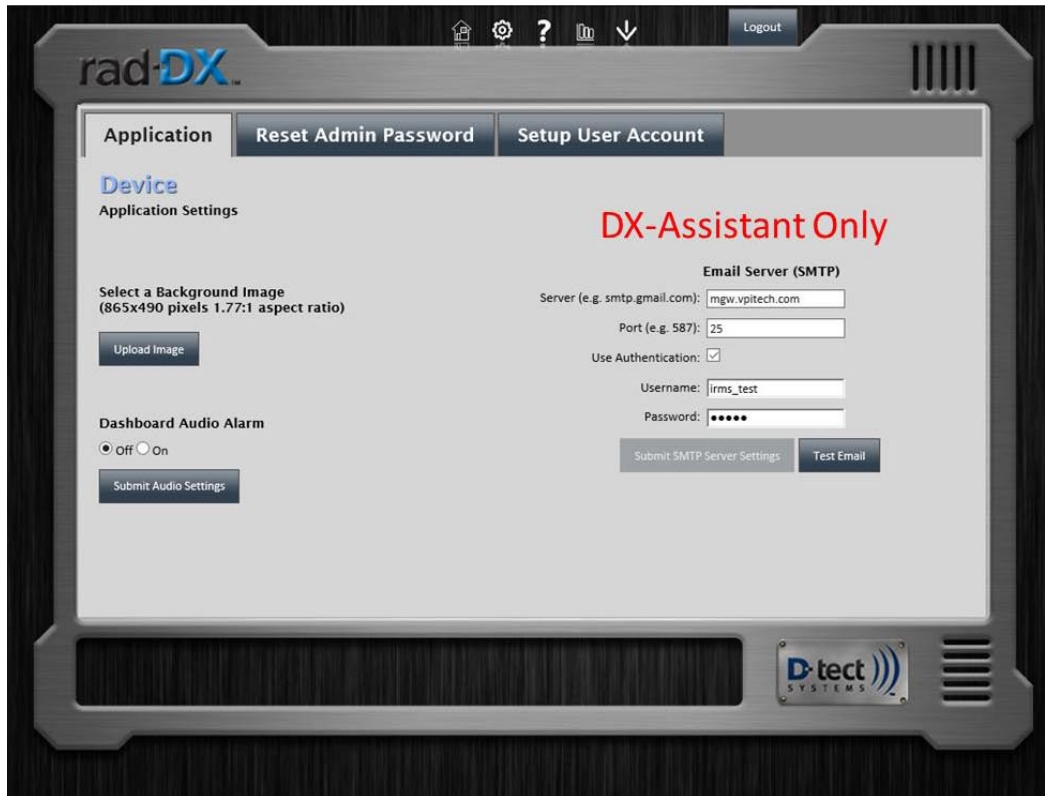


Figure 18: Settings Application Screen

4.3.1 Upload Map or Blueprint

Any map or blueprint in jpeg, bmp, png, or tif format can be uploaded. To upload the map or blueprint of your location:

1. Select the Settings icon at the top of the Home screen.
2. Select the Upload Image button.
3. Browse to the desired image file and click Open and Submit.

4.3.2 Email Server Setup – DX Assistant Only

The Email Server Setup only applies to the DX-Assistant, which is the DX Dashboard Software installed on a local webserver and not the D-tect Systems DX Dashboard Online Webserver.

On the Setup tab, there is a section to configure email settings to send email or SMS (if supported by the mobile carrier) messages in the event of a radiation alarm.

4.3.3 Setup Email Server Configuration – DX Assistant Only

Quick Step-by-Step Email Configuration
<ol style="list-style-type: none"> 1. Enter the SMTP Server and Port information 2. Enter the Username (Email Address) and Password (for that email account) 3. Check the SSL box (optional, provides better security) 4. Select desired email interval. 5. Send Test email and verify that it arrived properly. 6. Click Submit. 7. Add destination email addresses. This is done in the Device Settings: Alarm tab for each device.

Table 4: Email Quick Setup Guide

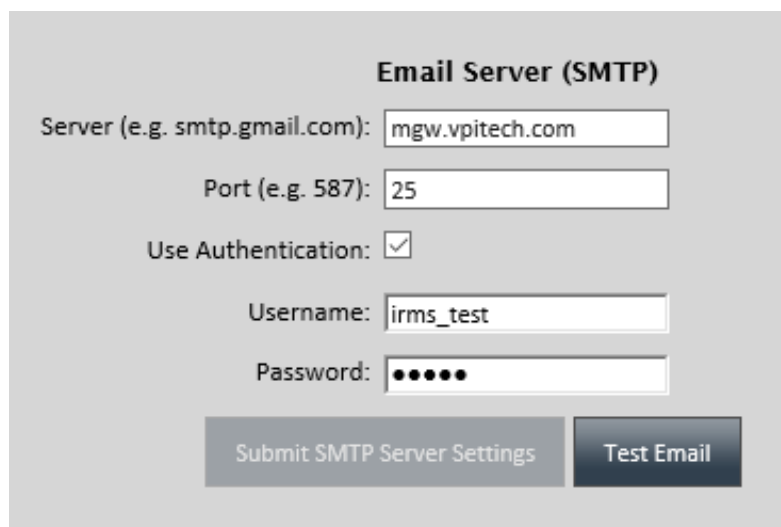


Figure 19: Email Server Setup

Figure 19 shows a sample setup for an email configuration. This will allow the DX-Dashboard software to login to the email account and use it to send alerts to the addresses specified for each device in its separate device setting page. The configuration shown in the example above is a valid example for a Gmail account. Replacing the username and password with those from the desired Gmail account and using the other configurations as shown will allow DX- Dashboard to send an email from that Gmail account.

Some email servers (Gmail included) require additional settings made from the standard email client to allow other programs to send emails through the account.

The SSL setting makes the DX-Dashboard encrypt the communication between itself and the email server to ensure the security of that account.

The DX- Dashboard supports the ability to send multiple emails over the course of a single alarm. The interval feature limits the amount of emails that the DX- Dashboard will send over the course of that alarm. The default setting is 30 minutes. You may want to reduce that time depending on how often you want to be notified during the course of a single alarm. If an alarm increases in intensity, the DX- Dashboard will send a new email regardless of the setting here.

Email Domain	SMTP Server	SMTP Port
Gmail.com	smtp.gmail.com	587
Yahoo.com	smtp.mail.yahoo.com	465
Hotmail.com	smtp.live.com	465
Outlook.com	smtp.live.com	587
Comcast.net	smtp.comcast.net	587
For additional email domains contact your network administrator.		

Figure 20: SMTP settings for common email domains

Error! Reference source not found. shows settings for four popular email domains. Other domains can be found online and private email servers can be configured by the network administrator.

Once the email configuration is set up, press the Send Test Email button to send a test email.

After you have successfully received a test email, press the Submit button.

Ensure that the email is successfully sent before moving on in the system configuration. Leaving an improperly configured email account active can cause communication problems with the software and each of the Rad-DX detectors.

Now that the email server is configured, each device needs to be configured to set which email addresses to send the alarm notification emails to.

4.3.3.1 Adding Email Addresses to Each Device

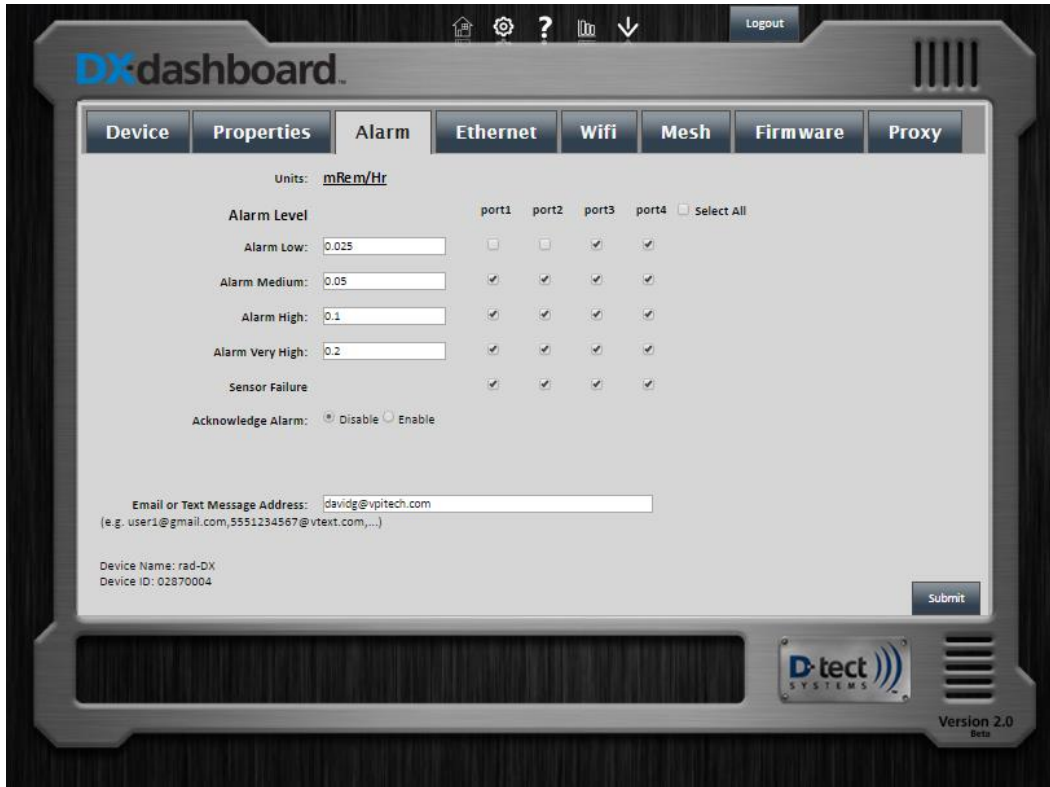


Figure 21: Target Email Address Configuration

Once the email server has been setup, each device can be configured to notify different combinations of email addresses. Figure 21 shows where to enter the email addresses separated by commas. The DX-dashboards also supports SMS messaging to phones using the proper domain for each carrier. The domains for some popular mobile carriers are included in Figure 22. The format for these addresses is 10-digit-number@domain (i.e. 8009991234@vtext.com).

Mobile Carrier	SMS Email Domain
Verizon	vtext.com
AT&T	txt.att.net
T-Mobile	tmomail.net
Sprint	messaging.sprintpcs.com

Figure 22: Mobile Carrier Domains

4.3.4 Reset Admin Password

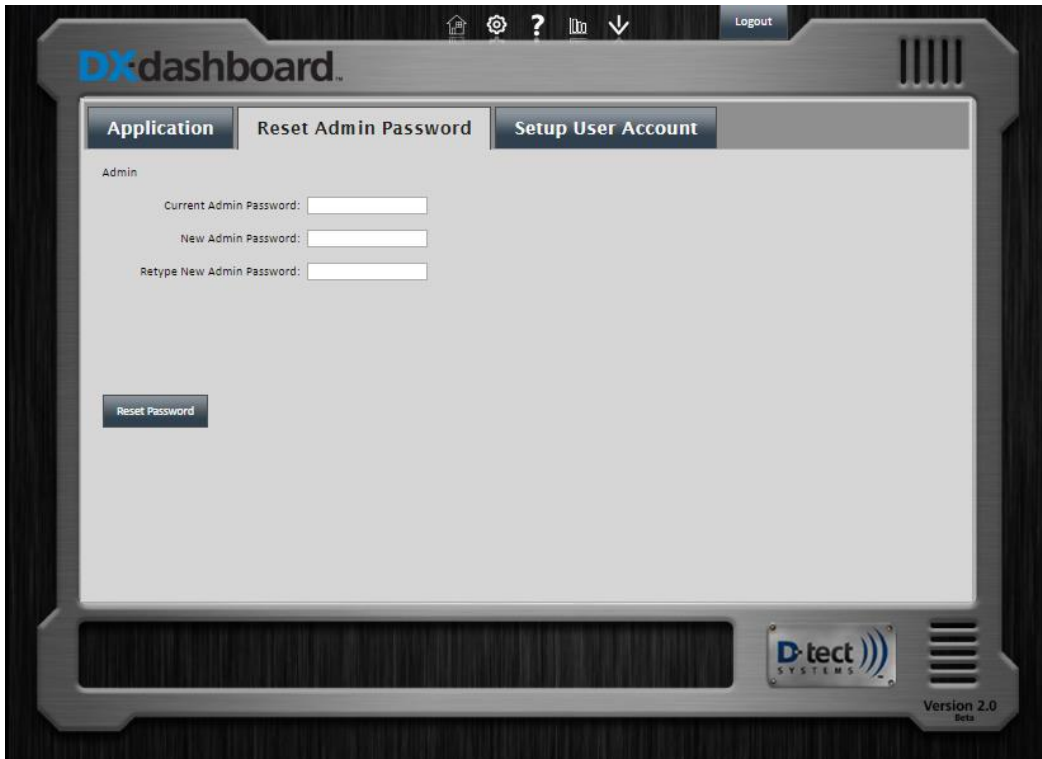


Figure 23: Reset Admin Password

Below are instructions to change the Admin Password.

1. Select the Settings icon on the top the Home screen.
2. Select the Reset Admin Password tab.
3. Enter the Current Admin Password.
4. Enter the New Admin Password.
5. Retype the New Admin Password.
6. Press the button, “Reset Password.”

4.3.4.1 Setup User Account

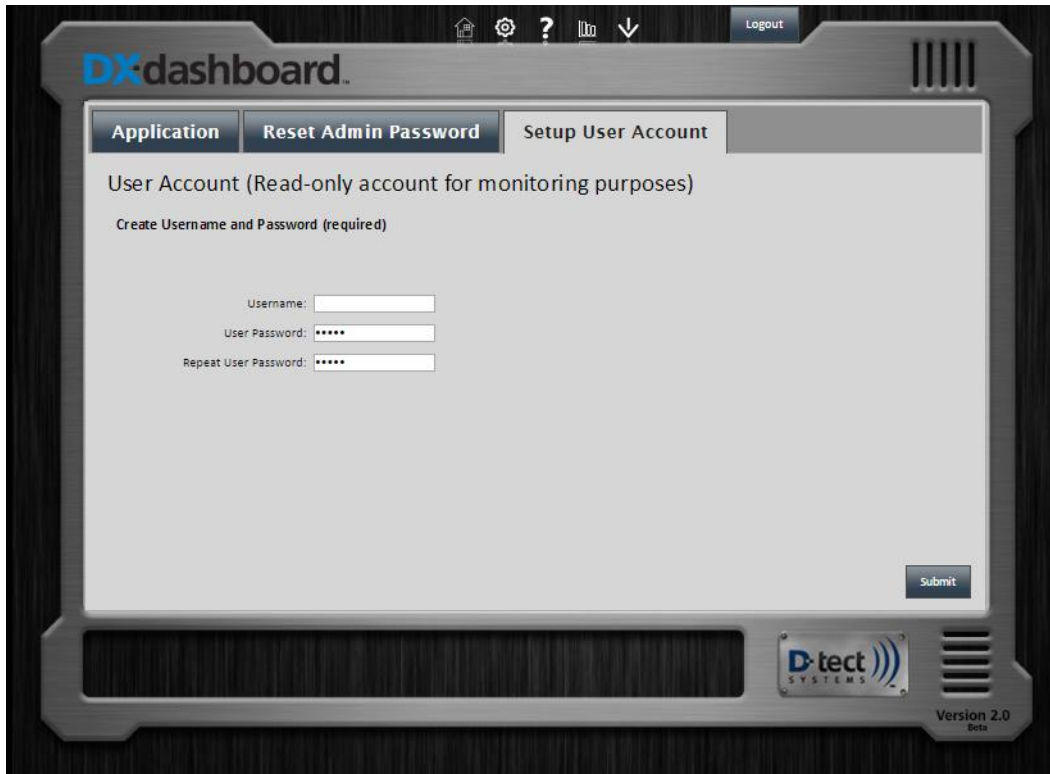


Figure 24: User Account Setup

You may setup one, and only one, User account for monitoring purposes only. The User account cannot view or change any settings. Instructions for adding a User account:

1. Select the Settings icon on the top the Home screen.
2. Select the Setup User Account tab.
3. Enter a username.
4. Enter a password.
5. Retype the password.
6. Press the “Submit” button.

4.3.5 Help Section

The Help screen provides information explaining current software features and functions. You may download the latest version of the Rad-DX manual in the User Manual tab.

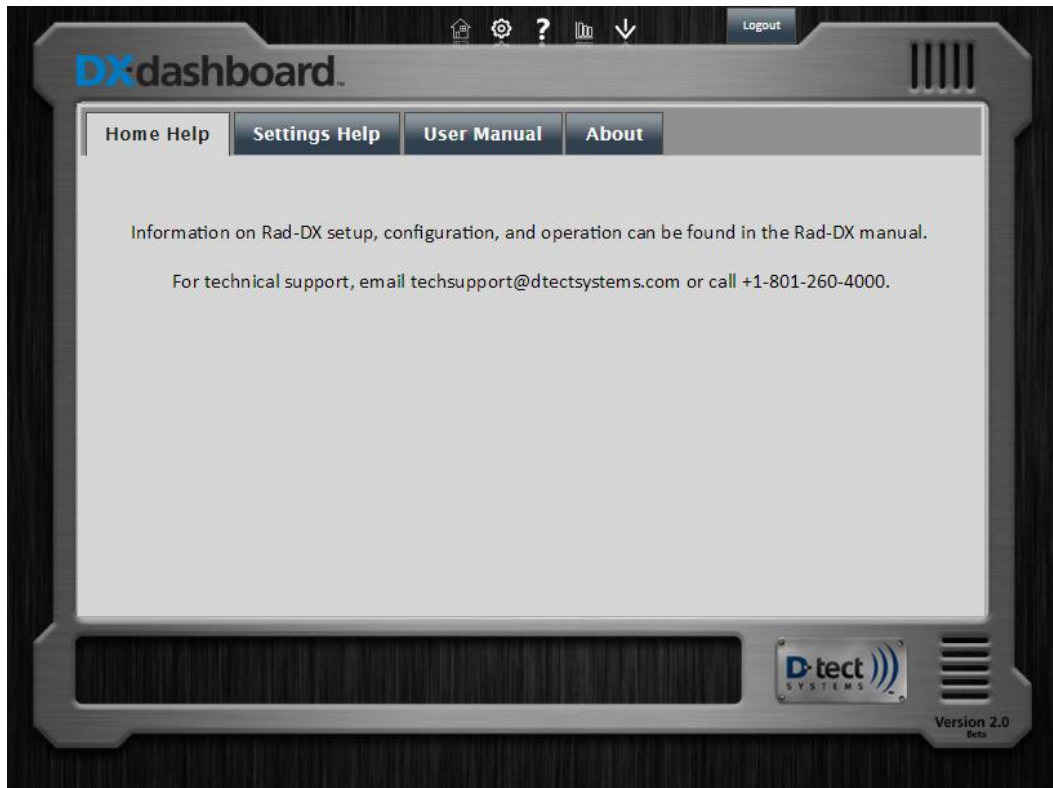


Figure 25: Help Screen

4.3.6 Download Event Button

Download data from a specific time frame to an Excel spreadsheet for further analysis. To view data from a specific time span, choose which detectors to include, select a Start Time and End Time, select the Time Zone, and indicate if you want all data or just Alarmed Events by selecting Show Alarm Events Only and then press Download.

An Excel document will automatically be created with the data being displayed.

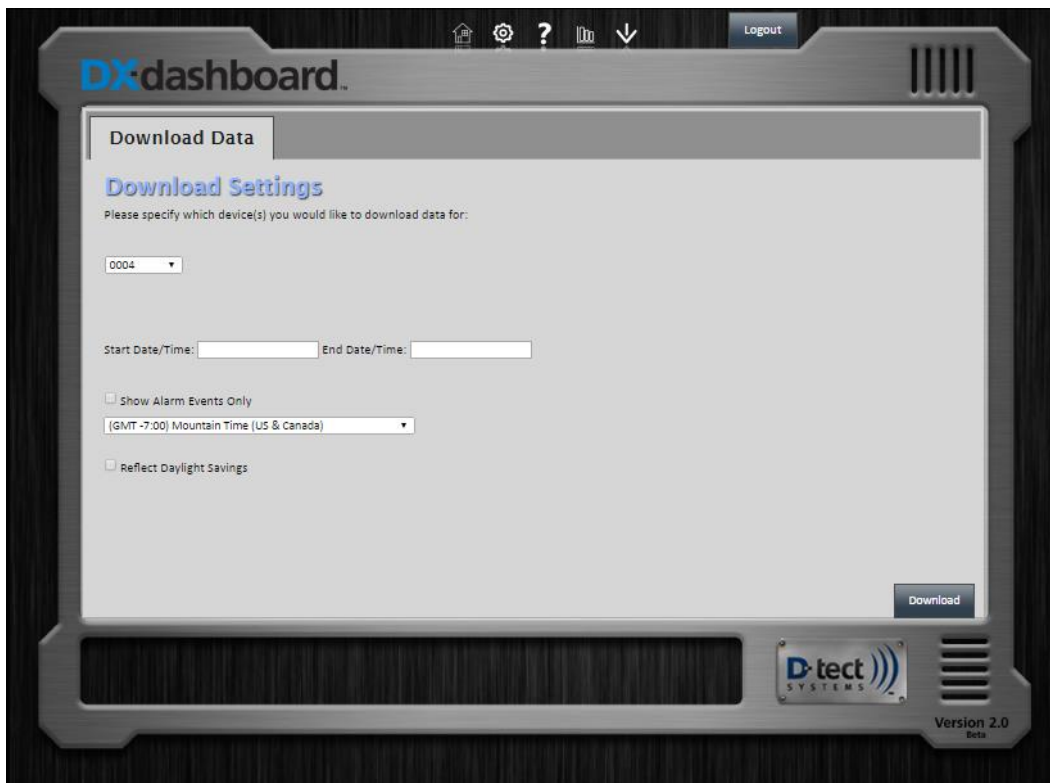


Figure 26: Application Home Screen

4.4 Software and Download Button

To download the latest to DX-Dashboard Setup Tool software and latest device firmware versions, you may go to the Software Download screen.

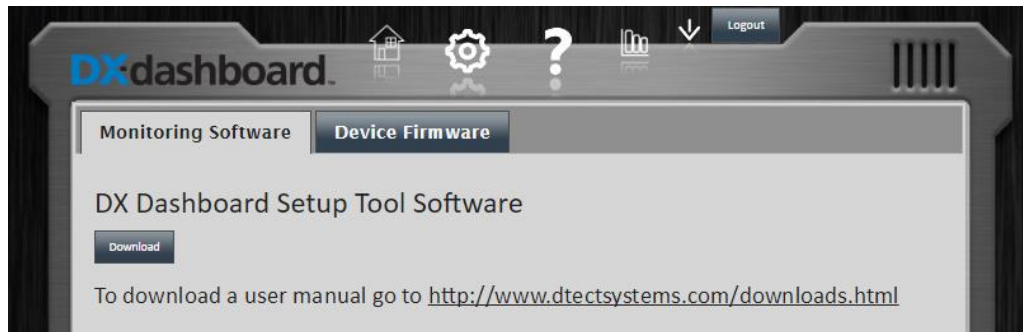


Figure 27: Software Download



Figure 28: Firmware Updates

4.5 Radiation Level Graph Button

To see a graph of the current dose rate detected by the unit, follow these steps:

1. On the DX-Dashboard Home screen, click on the device icon to access the Device Configuration Window.
2. Click on the white graph icon in the bottom right corner of the Device Configuration Window.
3. The graph will display recent dose rate readings detected by the unit.
4. You can change the radiation units at the top of the screen from mRem/hr to μ Sv/hr to CPS by clicking directly on the current radiation unit being displayed.
5. You can also change the time zone by clicking on the drop-down menu to select the desired time zone.

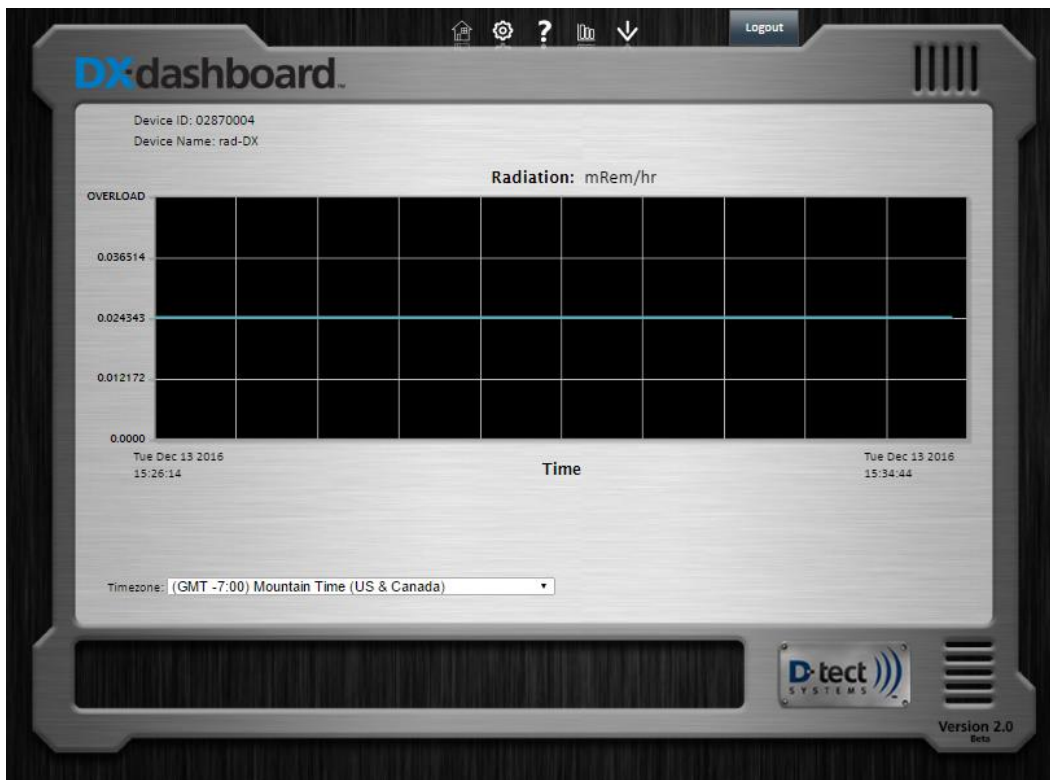


Figure 29: Radiation Graph

4.6 Device Configuration Button

To configure a specific device, select the corresponding blue icon on the Home Screen. A gray box will pop up with information about the device. Click the Device Settings icon (small white gear) in the bottom right corner of this box to access the configuration settings. The following tabs allow customization in these areas:

Note: Options that don't apply to a particular device will be grayed out.

4.6.1 Device Screen

Device Screen Options	Function
Device Type	Lists the D-tect Systems device that the application manages
Device Name	Allows the user to assign names to different devices in the network
Device ID of Gateway Rad-DX	Lists the ID of the device that is being used to communication through when using the SensorNet mesh network
PC Host Server URL	The URL address of the PC receiving data from the gateway device
Port Number	Lists the port number

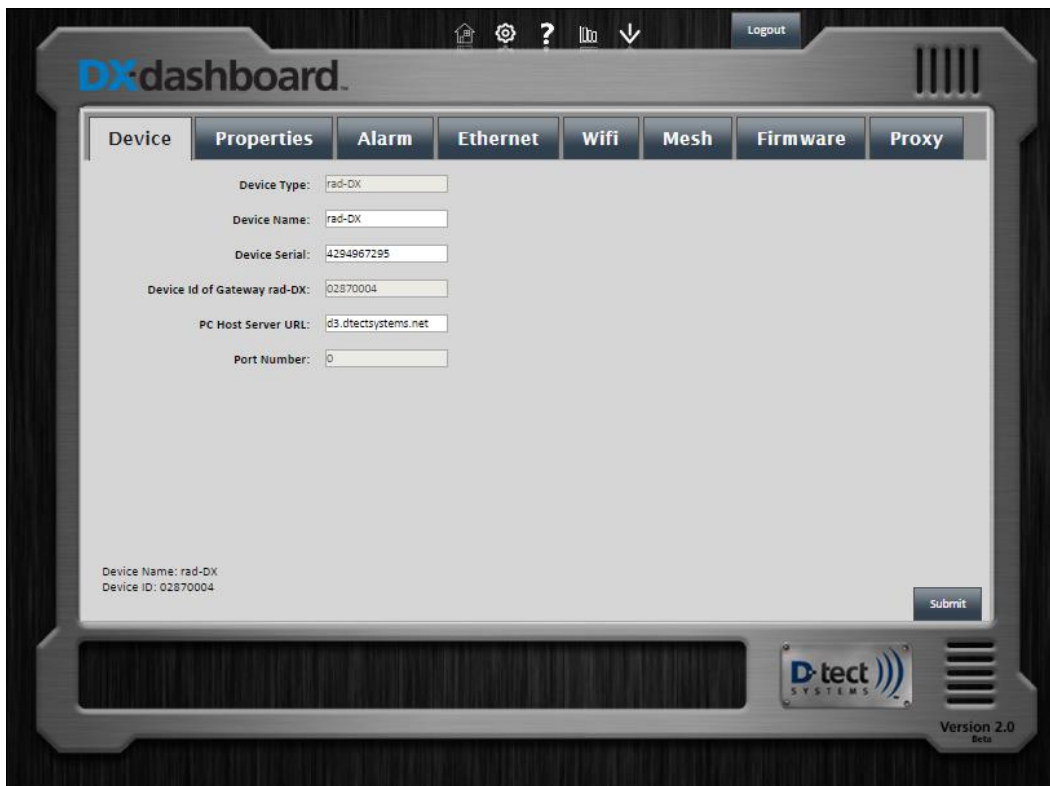


Figure 30: Device Screen

4.6.2 Properties Screen

The user can make display changes on the device in the Properties Screen.

Properties Options	Screen	Function
Radiation Units		Changes Radiation Units displayed (mRem/hr - μ Sv/hr - CPS)
Time Scale		Changes the graph scale
Touch Screen		Enables/disables the touch screen
Audio Alarm		Disable/enable the audio alarm
LCD Display		Changes available screen view
Time Zone		Sets time zone for device
Daylight Savings Time		Select when daylight savings time adjustment is required

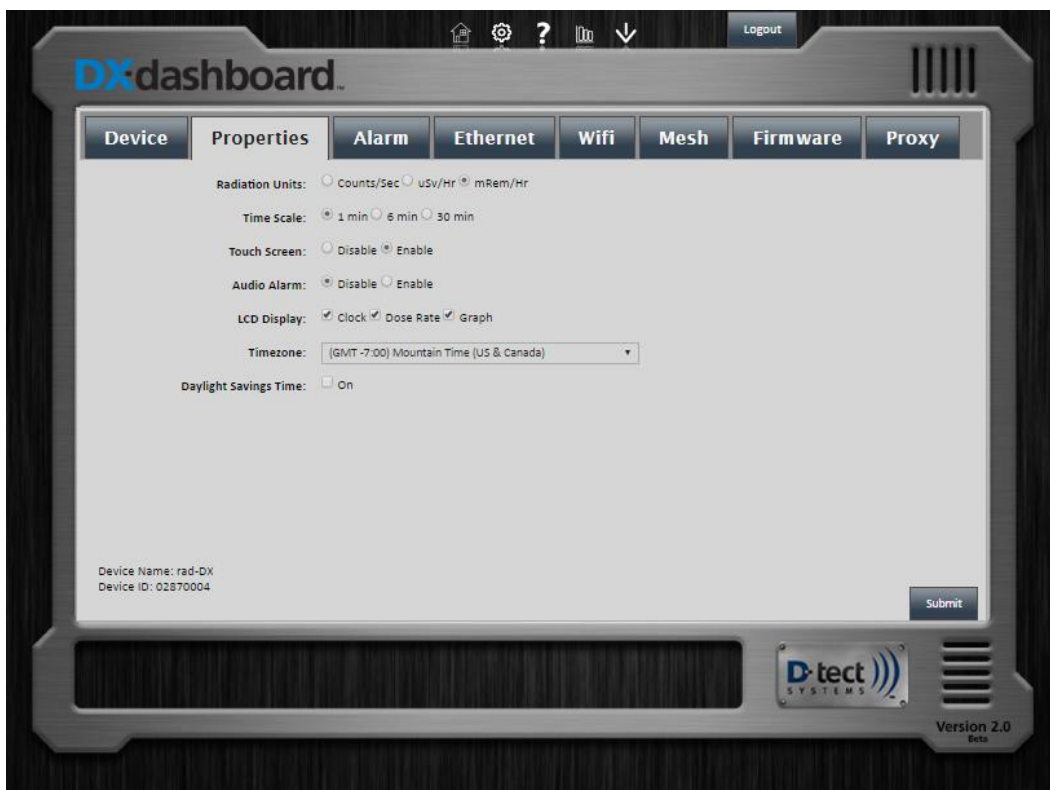


Figure 31: Properties Screen

4.6.3 Alarm Screen

The user can select the radiation level that sets off an alarm. There are 4 alarm level settings that can be customized for each device. This allows personnel not familiar with radiation units to be trained to respond to simple alarm levels. Under the Alarm tab, the alarm levels can be entered. The units for alarm levels are in either mRem/hr or μ Sv/hr as selected.

Alarm Screen Options	Function
Radiation Alarm Levels	Variable alarm levels are set by the user with “Alarm Low” as the lowest alarm level and “Alarm Very High” as the highest. These levels should all be set above background levels to minimize false positive readings.
Ports	The port configurations allow the Rad-DX to be connected to an external alarm system over a USB relay switch. An alarm will sound on any checked port when that alarm level is reached.
Acknowledge Alarm	When enabled, an alarm on this device will have to be acknowledged by at supervisor before it will shut off.
Email Address	Add email addresses to send notifications when alerts occur. Add multiple email addresses by separating each email address with a comma, e.g. johndoe@gmail.com, janedoe@gmail.com

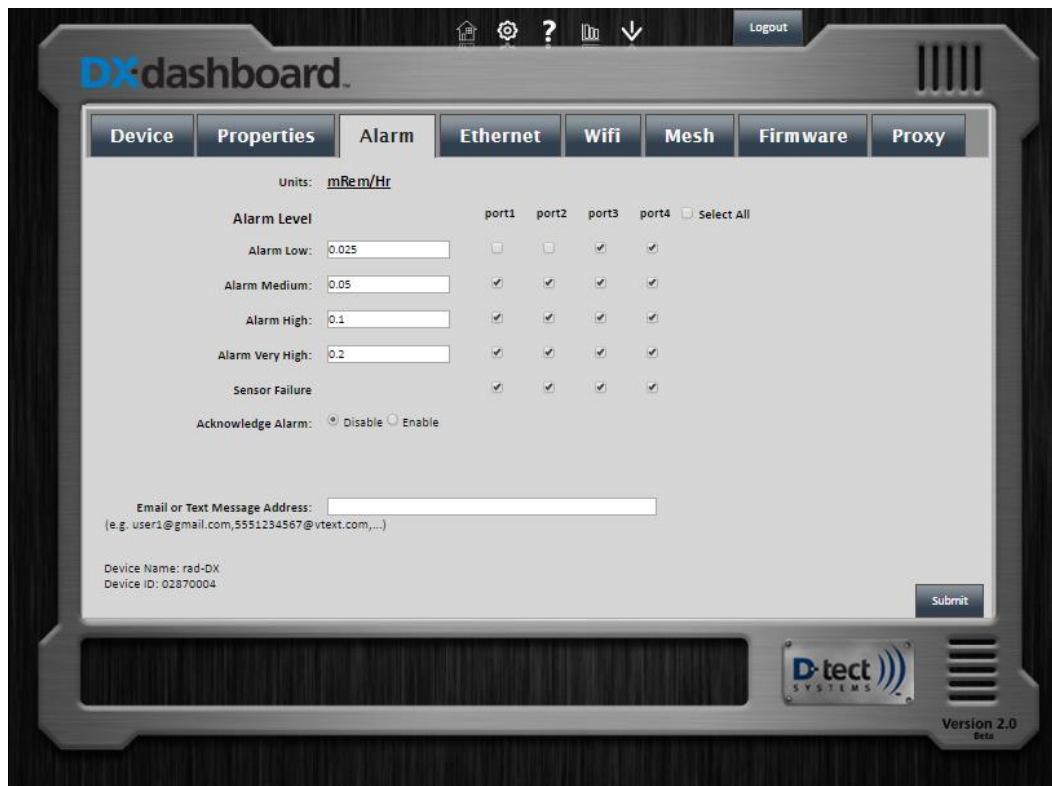


Figure 32: Alarm levels are listed and editable under the Alarm Tab

4.6.4 Ethernet Screen (Rad-DX only)

The user can enable and disable the Ethernet connection on Rad-DX radiation detectors. Current Ethernet settings can also be adjusted here. Note that if you disable the Ethernet signal on your Rad-DX, you could lose communication with it through the DX-Dashboard software unless you also have Wi-Fi enabled.

Ethernet Screen Options	Function
Ethernet	Turns Ethernet communications on or off
Enable DHCP	Enables or disables DHCP coverage
Device IP Address (static IP)	If DHCP is off, the static IP address can be set by the user when setting up the Rad-DX network for the first time
Subnet Mask	Lists the subnet mask
Gateway	Lists the gateway IP address
Primary DNS	Lists the primary DNS address
Secondary DNS	Lists the secondary DNS address

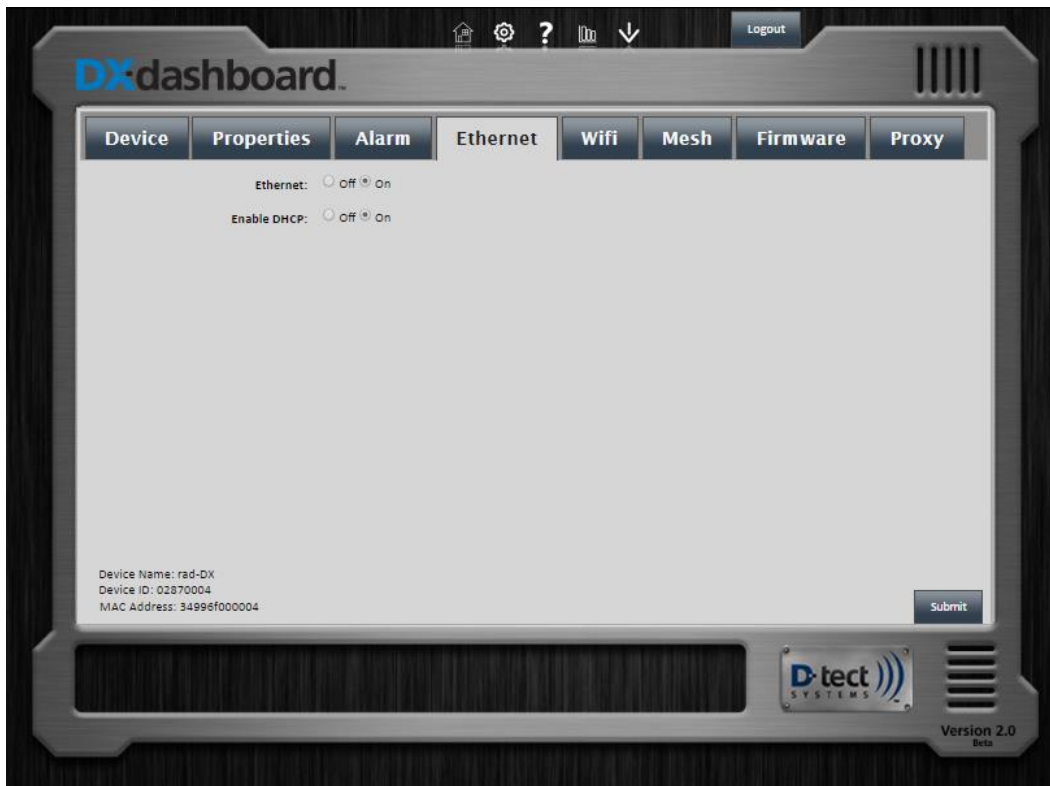


Figure 33: Ethernet Screen Details

4.6.5 Wi-Fi Screen (Rad-DX only)

The user can enable and disable the Wi-Fi connection on their Rad-DX. Current Wi-Fi settings can also be adjusted here. Note that if you disable the Wi-Fi signal on your Rad-DX, you could lose communication with it through the DX-Dashboard software unless you also have Ethernet enabled.

Wi-Fi Screen Options	Function
Wi-Fi	Turns Wi-Fi communications on or off
SSID	Lists the Service Set ID number of the WLAN device in communication
Security Type	Sets the wireless security type
Wireless Security Key	The Wi-Fi key required to communicate over the system
Wireless Encryption Type	Sets the wireless encryption type
Enable DHCP	Enables or disables DHCP
Device IP Address	Lists the static IP address set by the user
Subnet Mask	Lists the subnet mask address
Gateway	Lists the gateway IP address
Primary DNS	Lists the primary DNS address
Secondary DNS	Lists the secondary DNS address

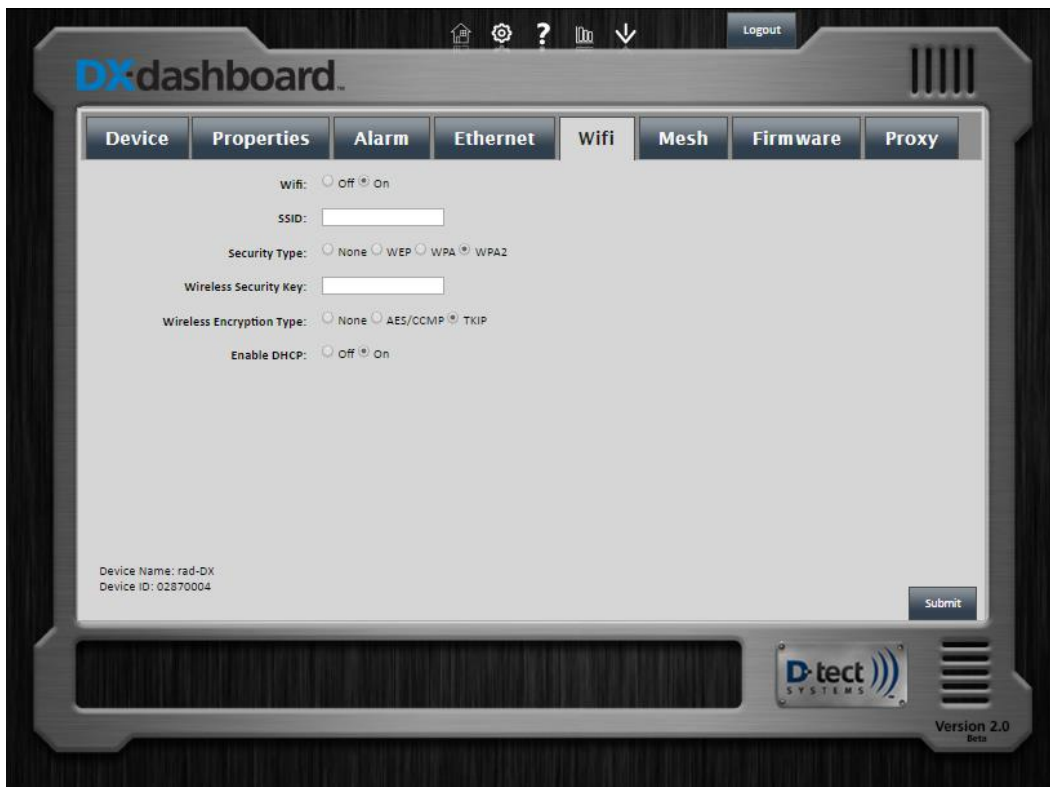


Figure 34: Wi-Fi Screen Details

4.6.6 SensorNet Mesh Screen

In the Mesh screen you can enable and disable the SensorNet mesh connection on your device and change the mesh channel.

Mesh Screen Options	Function
Mesh	Turns the D-tect SensorNet communications on and off.
Channel	Determines what frequency the radiation detector communicates on.

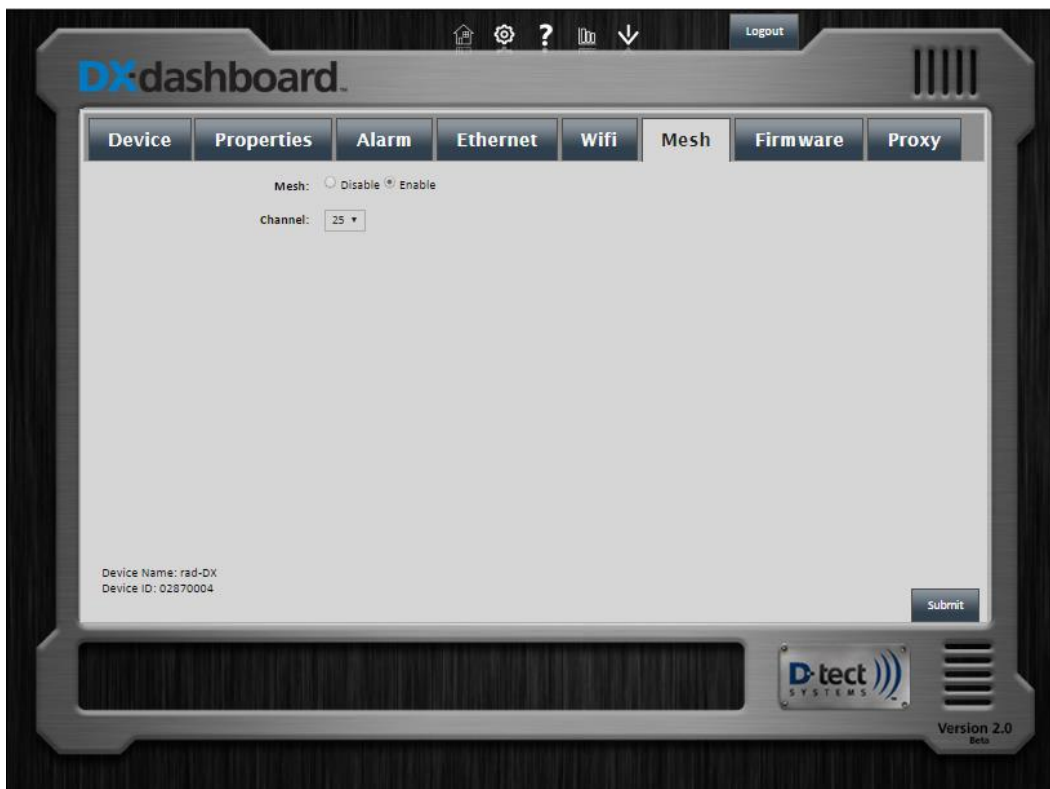


Figure 35: Mesh networking Screen Details

4.6.7 Firmware Update Screen

Users can change firmware versions in this screen.

Firmware Update Screen Options	Function
Choose file	<p>Browse to find the firmware update file (the file name will end in .tgz). Click the Send button to start the firmware update. This will take several minutes. Note that updating the firmware through a mesh connection increases the amount of time needed to update. The update file is first transferred to the Rad-DX unit. Then the Rad-DX unit will show "Updating Device" on the LCD screen (if present). The top-center blue light will eventually flash quickly. The unit will automatically reboot and rejoin the network when the update is complete.</p> <p>The updating firmware process for devices other than the Rad-DX may vary depending on the device and its communication features.</p>
Version	Display current firmware version of selected device.

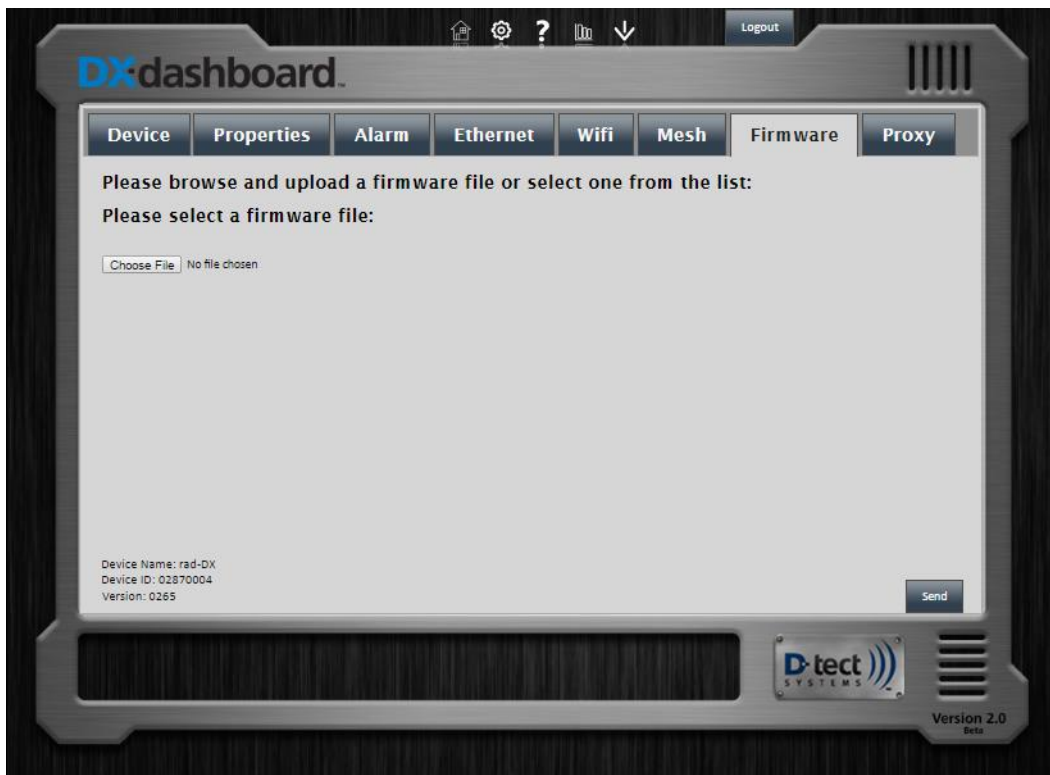


Figure 36: Firmware Update Screen Details

4.6.8 Proxy Screen

If your device needs to communicate through a proxy server, turn on the “Proxy Enabled” option. This will bring up two fields, “Proxy URL” and “Proxy Port.” Enter the IP address or URL of the proxy server the device is connecting to under “Proxy URL.” Enter the port number of the proxy server under “Proxy Port.” If the proxy requires authentication, turn on the “Authentication Enabled” option. This brings up the fields “Proxy Username” and “Proxy Password.” Enter the proxy server username and password information into these fields, respectively.

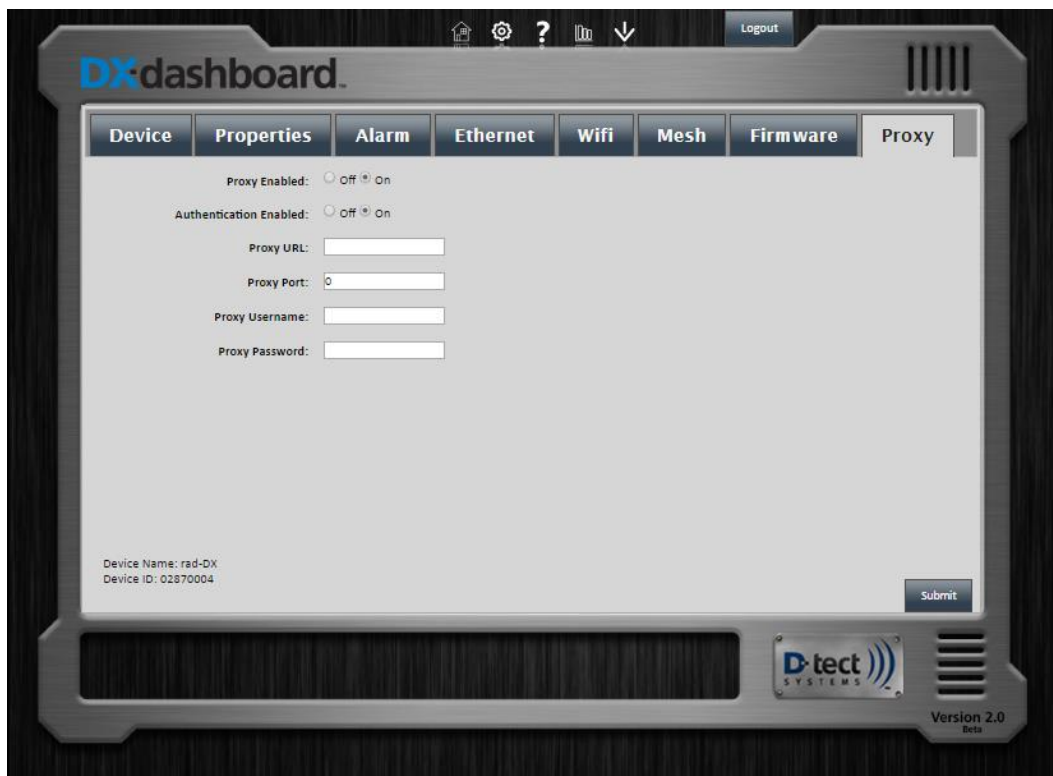


Figure 37: Proxy Server Settings

5 Software Usage Statement

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

6 Technical Support

For any technical questions you are encouraged to contact your distributor, or you may also contact us directly.

Phone: 801-260-4000

Email: techsupport@dtectsystems.com