# Connecting to the Banner Connected Data Solutions Demo Site



## Overview

Equipment Necessary: DXM100 or DXM150 using either a 900 MHz or 2.4 GHz Gateway ISM radio

This document provides step-by-step instructions on how to connect the DXM Controller to the Banner Connected Data Solutions by Sensonix Demo website *https://demo.sensonix.net/*. To request access to the Demo site, please contact your local Banner Distributor or Representative.

#### Download, Install, and Connect to the Software

- 1. Download the DXM Configuration Tool v3 from the Banner Engineering website and install it on a computer.
- 2. Apply power to the DXM Controller.
- 3. Connect the DXM Controller to the computer with a USB cable.
- 4. Launch the DXM Configuration Tool.
- 5. On the DXM Configuration Tool, go to the **Device** > **Connection Settings** menu.
- 6. Select Serial, then select the COM port the USB cable is plugged into.
- 7. Click **Connect**. If you are unsure which COM port to use, and multiple appear, attempt to connect to each one of them until you are successful.

### Connect to the Demo Site

- 1. After the DXM Controller has been connected to the DXM Configuration Tool, access the XML file.
  - Open the XML file the DXM is currently using;
  - Create a new XML; or
  - Get the current XML file by going to the Device > Get XML Configuration from DXM menu and naming the file.
- 2. Go to the **Settings** > **Cloud Services** screen.

Network Interface	Web Server	
Push interface Ethernet	Server name/IP	demopush.sensonix.net
Ethernet retries per push interval 5	Page	/push aspx
Cell Configuration	, age	
Cell module (CE910 2G CDN)	Host header	
APN	Site ID is GUID	
APN Username		
	Clear	0000000-0000-0000-0000-000000000000
APN Password		
	Custom HT	TP Headers
Cloud Push		
Cloud push interval 10 minutes	Initial Push Op	btions
Sample count 2	Include XMI	L GUID on first push
Push port 80 🗢	LITTOO	
Drint much debug messages to social sensels	HTTPS	
	Use HTTPS	
Web Server Authentication	Certificate CN	*.sensonix.net
Require Authentication		
Username		
Password		

- 3. Change the Server name/IP to: demopush.sensonix.net.
- 4. Select the appropriate **Push interface**: Cellular or Ethernet.

To configure for Ethernet, go to the **Settings** > **Network** screen. To configure for cellular, refer to the *Activating a Cellular Modem* tech note.

5. Set the **Cloud push interval** to determine how often the DXM Controller pushes the registers selected to report to the website.

The **Sample count** determines how many samples are taken between each push interval. For example, a push interval of 10 minutes with a sample count of 2 pushes two samples that were taken every 5 minutes.

Use **Action Rules** to trigger cloud pushes by selecting **Push When Active** within the Threshold options. Threshold options are available by expanding a **Threshold Rule** (click on the arrow next to the rule). This pushes all registers set to push every time the action rule is triggered.

- 6. Select which registers to push to the cloud.
  - On the Local Registers screen, expand each register you'd like to push to the cloud and set Cloud Reporting to on and Cloud Permissions to Read, Write, or Read/Write.
  - On the Modify Multiple Registers screen, set Cloud Reporting to on and Cloud Permissions to Read, Write, or Read/ Write for a block of registers.

#### Configure the Demo Site

- 1. Go to the Banner Connected Data Solutions by Sensonix demo website (*https://demo.sensonix.net*) and log into the demonstration account that was created for you.
- 2. Click +New Site and name your site.

I Stes	🗠 Registers 🔹 🖈 Favorites	🚔 Graph 🛛 🗘 Alarms	n Dashboard (beta)	
			C Retresh + New Stat	
Details	Site		* 🥲 Last Push	1 D Alarms
+ / 050	FF_EventTest1		05/01/2018 04:29 pm	None
+ / 050	FF_EventTest2		05/01/2018-04-29 pm	None
+ / 000	FinalTestCell		04/19/2018 05:08 pm	Connectivity Error

- 3. Highlight and copy the Site ID, then click Save.
- 4. On the DXM Configuration Tool, go to the Settings > Cloud Services screen.
- 5. In the Web Server section, verify GUID is selected as the Site ID type. Paste the copied site ID into the Site ID field.
- 6. Save the XML configuration file (File > Save menu).
- 7. Upload the XML configuration file to the DXM Controller (Devices > Send XML Configuration to the DXM menu).
- 8. On the Banner Connected Data Solutions by Sensonix site, load the new XML configuration file.
  - a) Click **Options** on the row of the newly created site.
  - b) Click the checkbox next to **XML Config** and select the XML file that was just saved and uploaded to the DXM Controller.
- 9. Click Save to complete the connection to the website.

