Loading Programs From Laptop to Q330's

Introduction
This document provides step by step instructions for loading a new configuration file into a Q330, from an XML file, using a laptop running Willard software. These instructions are specifically for stand alone stations where all the data is going to the Baler on data port 4. It is only necessary to use this procedure if you do not have a “clone” of the configuration on a Clie. Upon completion of this procedure the Q330 will be using the new configuration to acquire data, and a clone of the configuration can be made on a Clie for programming other stations. After the new configuration is loaded on the Q330, normal service procedures should be followed to ensure that the station is operating correctly. These instructions can only be used when the laptop is connected to a Q330.

Description of the Equipment
In order to perform this procedure you will need a Windows laptop with a serial port and a Q330 console to serial cable, the console. The laptop must have Willard installed and have a copy of the XML file to be loaded onto the Q330. If the laptop does not have a serial port you will need to use a USB to serial adapter.

Directions

Establishing Communication

Connection
Make sure power is connected to the Q330.

Connect the laptop to the Q330 console connector using the serial to console cable and a USB to serial adapter if needed.

Finding the available COM Port numbers

Open the Windows control panel by pushing start button and then Settings and Control Panel.
Look under Ports (COM & LPT) to find the available com port numbers. In this picture we know that it is the “Keyspan” on COM 4 because we were using a Keyspan adapter.
Register with the Q330

Start the Willard program and choose Console Registration

Set the Willard Interface to the correct setting that was previously determined. Select OK. If you are unsure of the COM port you may have to try more than one.

If the Dataless Station panel appears select No. Otherwise proceed to the next step.
In the menu choose **Configuration Cloning**. If Willard does not respond, restart Willard using a different COM number.
Loading the Parameters into the Q330

Loading the XML configuration file into Willard

In the Configuration Cloning window choose Load from File.

Using the file browser find the XML file to be loaded and select open.

After the file has finished loading all the fields will be empty select Copy from File for DPs, Interface and Global. This will copy the specified names and values from the file. The station names should now indicate the configuration.

Editing the station names and sending the file to the Q330

Edit the Station in DP4 to the station name of the current station. Leave the other three station names to indicate which configuration is installed. Select Apply to send the configuration to the Q330.

Wait while the configuration is loaded into the Q330.
After the configuration is loaded in the Q330 select **Re-boot Now**.

Verify that the configuration has been loaded.

When the Q330 has finished rebooting **Reregister** Willard and select **DP Token Editor** from the **Configuration** menu.

Select Port 1.
Verify that the **Station** name corresponds to the correct configuration and then select **Cancel**.
Repeat for Data Port 4 and verify that the Station corresponds to the current station. Select Cancel and exit from Willard.

Source URL: https://www.passcal.nmt.edu/content/instrumentation/dataloggers/3-channel-dataloggers/quanterra-q330-datalogger/loading-programs