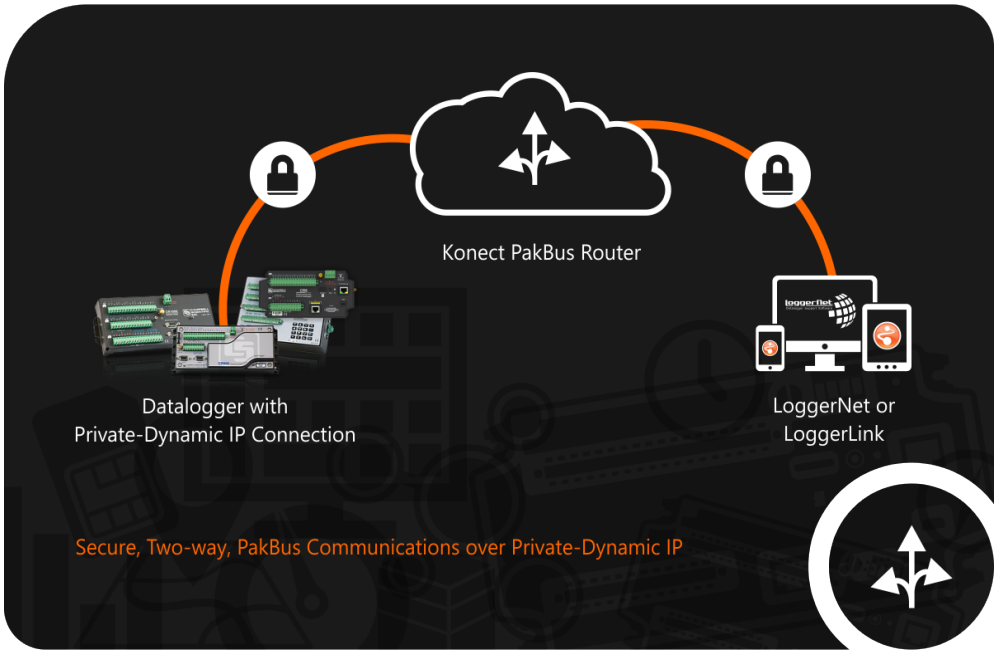
Getting Started Guide

Communications Device

Premium Konect PakBus® Router

PakBus Routing Service



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Premium Konect PakBus Router

1. Introduction

Take advantage of the secure Konect PakBus®[1] Router for on-demand two-way access to your data logger. The Konect PakBus Router is a cloud-based service that acts as a bridge between an internet-enabled data logger and LoggerNet or LoggerLink data logger support software. This guide will walk you through the steps to:

1. Configure a data logger
2. Set up LoggerNet
3. Manage with KonectGDS

You will need the Premium Konect PakBus Router certificate provided with your purchase of the Premium Konect PakBus Router.

[1] PakBus is a registered trademark of Campbell Scientific, Inc.

2. Configure data logger

The data logger setup depends on the type of cellular hardware you are using. Follow the instructions in the section that applies to your hardware configuration.

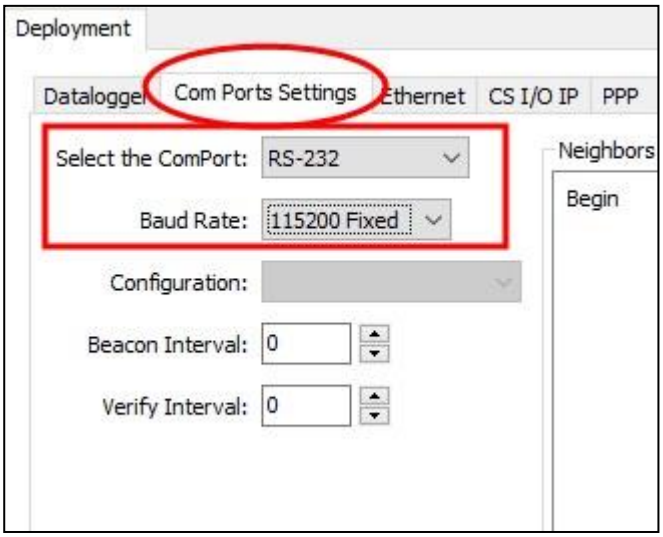
1. Data logger connected to a CELL200-series module
2. Data logger with an internal cellular module
3. Data logger connected to an RV50 modem

2.1 Data loggers connected to CELL200-series modules

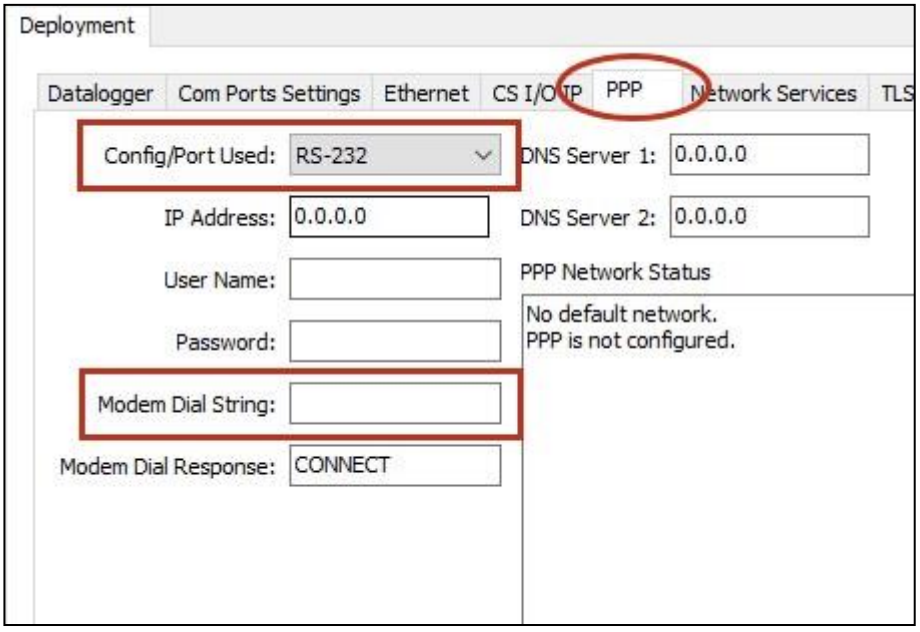
1. Launch the Device Configuration Utility. All tabs are within the Deployment category.

   On the Data logger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the information provided on the Premium Konect PakBus Router certificate.

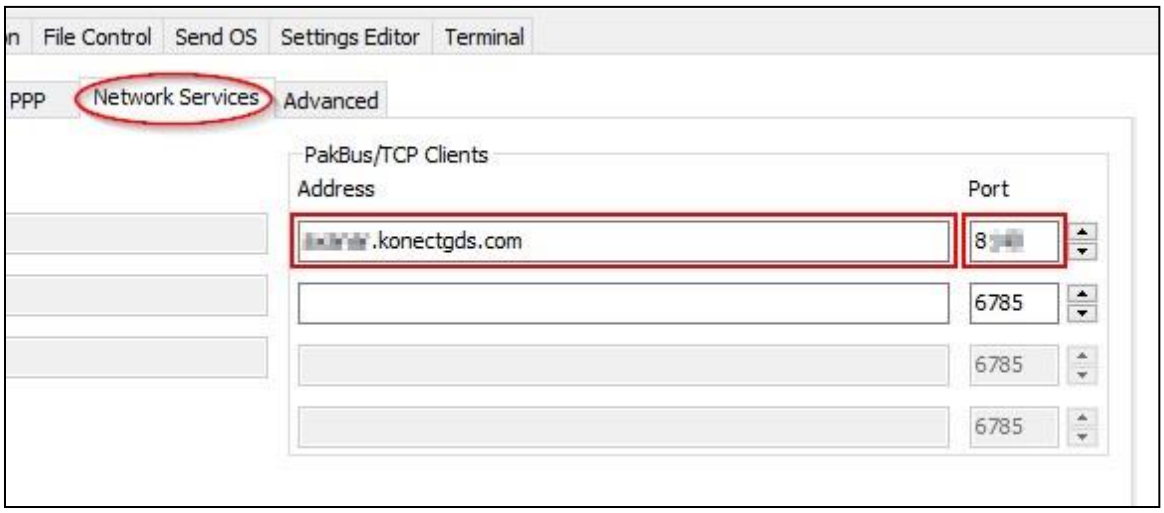
2. On the Com Ports Settings tab, Select the ComPort where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the Baud Rate to 115200 Fixed.



3. On the PPP tab select the Config/Port Used where the modem is connected. This is the same as was selected on the Com Ports Settings tab. Leave the Modem Dial String blank.



4. On the Network Services tab, in the PakBus/TCP Clients box, type the DNS address and Port number as stated on the Premium Konect PakBus Router certificate provided.



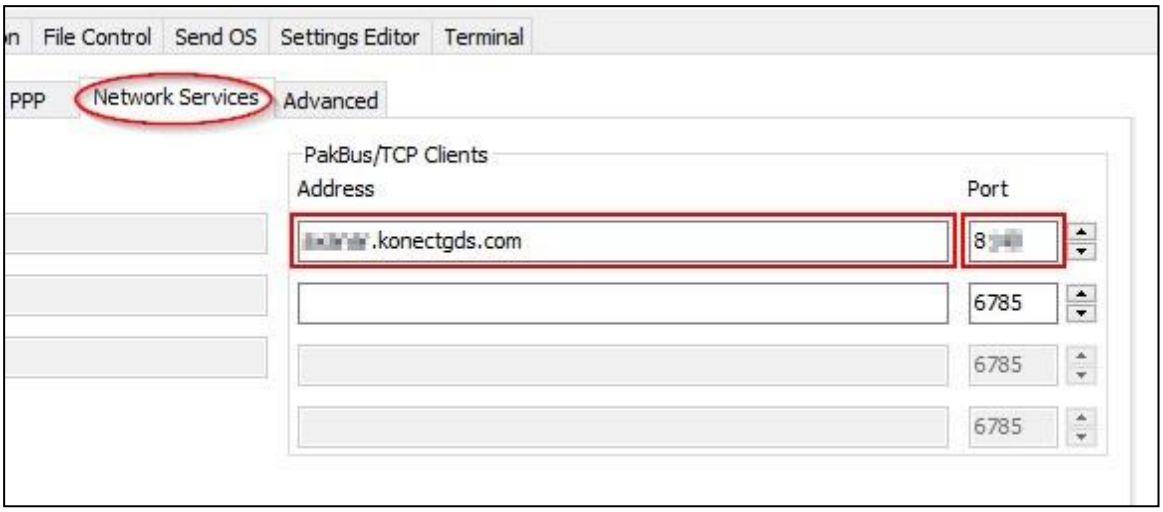
5. Apply to save your changes.

2.2 Data loggers with internal cellular modules (CR300-CELL200)

1. Launch the Device Configuration Utility. All tabs are within the Deployment category.

   On the Data logger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the values as stated on the Premium Konect PakBus Router certificate provided.

2. On the Network Services tab, in the PakBus/TCP Clients box, type the DNS address and Port number as stated on the Premium Konect PakBus Router certificate provided.



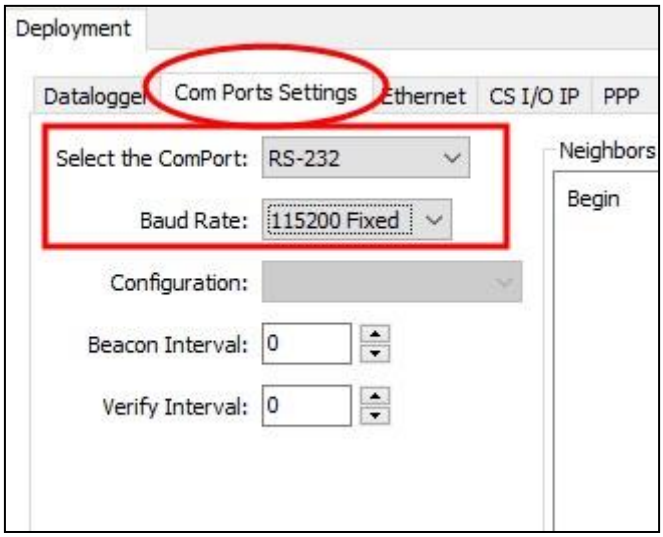
3. Apply to save your changes.

2.3 Data loggers connected to RV50 modems

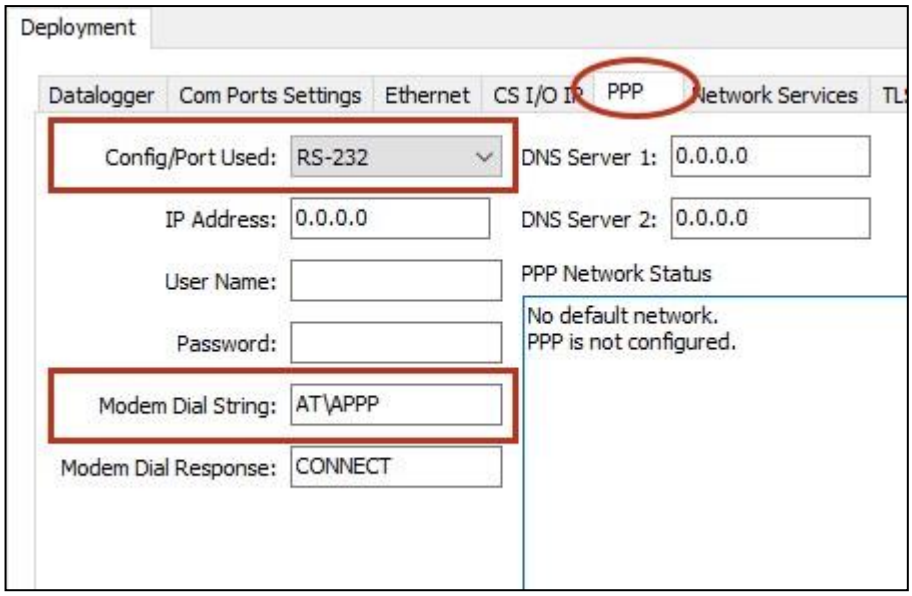
1. Launch the Device Configuration Utility. All tabs are within the Deployment category.

   On the Data logger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the values as stated on the Premium Konect PakBus Router certificate provided.

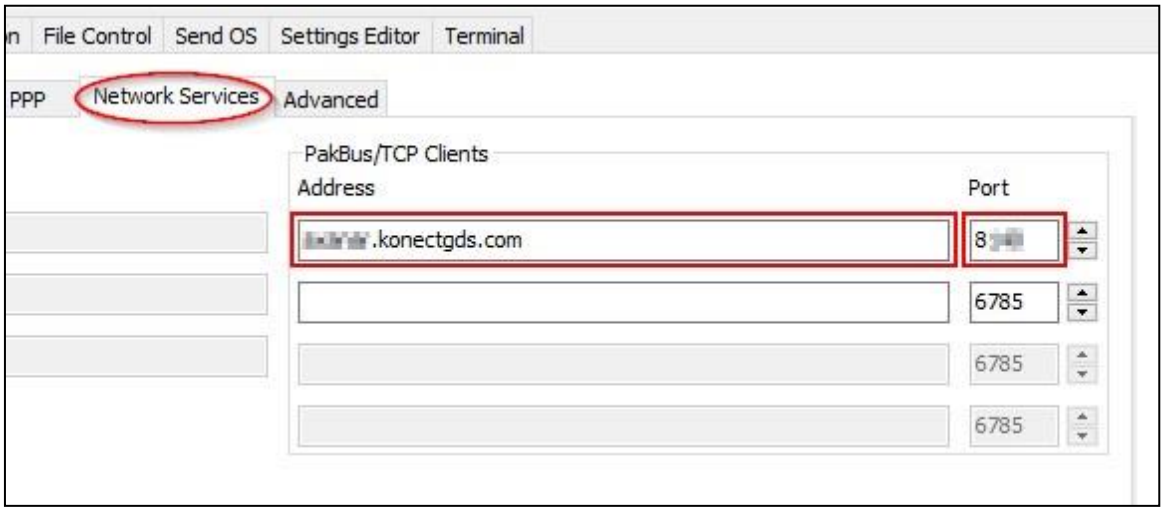
2. On the Com Ports Settings tab, Select the ComPort where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the Baud Rate to 115200 Fixed.



3. On the PPP tab select the Config/Port Used where the modem is connected. This is the same as was selected on the Com Ports Settings tab. Set Modem Dial String to AT\APPP.



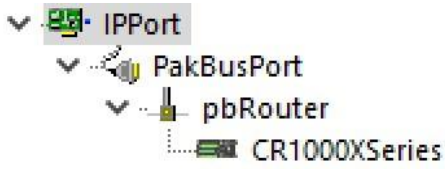
4. On the Network Services tab, in the PakBus/TCP Clients box, type the DNS address and Port number as stated on the Premium Konect PakBus Router certificate provided.



5. Apply to save your changes.

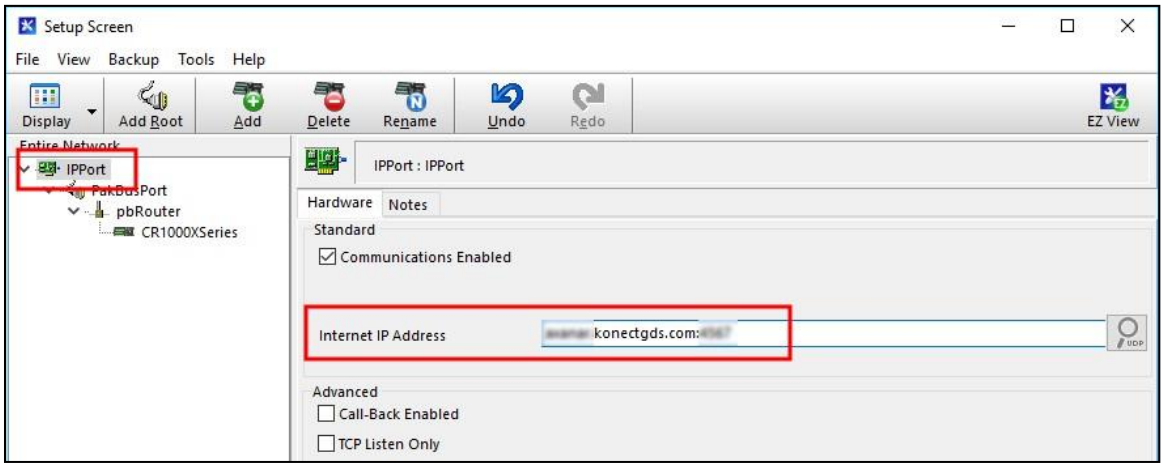
3. Set up LoggerNet

1. In the Standard View of LoggerNet Setup , add an IPort, > PakBusPort > pbRouter, and datalogger.

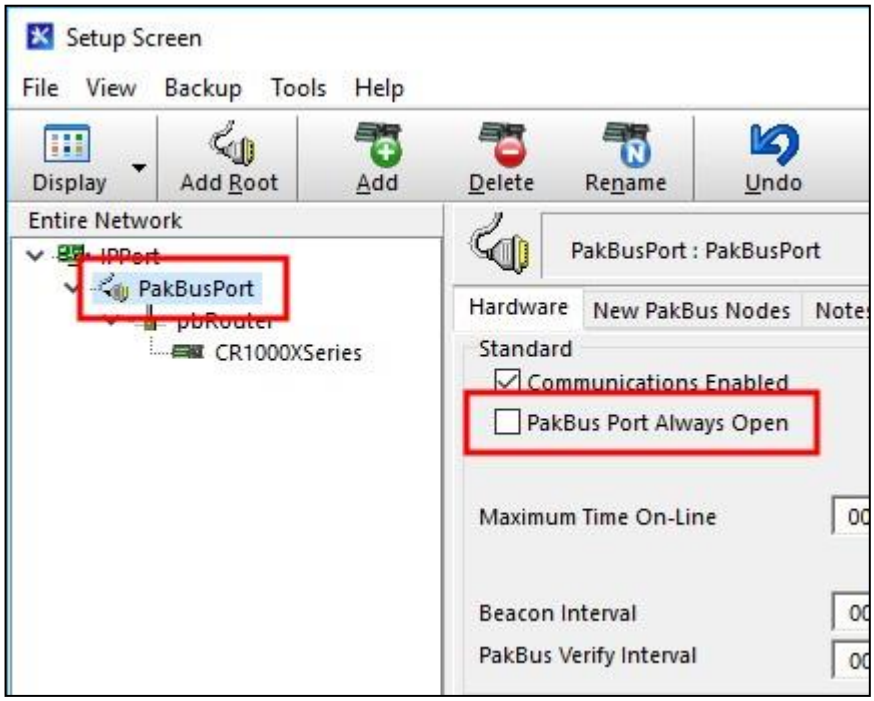


2. On the IPPort Hardware tab, select the Internet IP Address field. Enter the Konect PakBus Router DNS address and Port number separated by a colon as noted on the Premium Konect PakBus Router certificate.

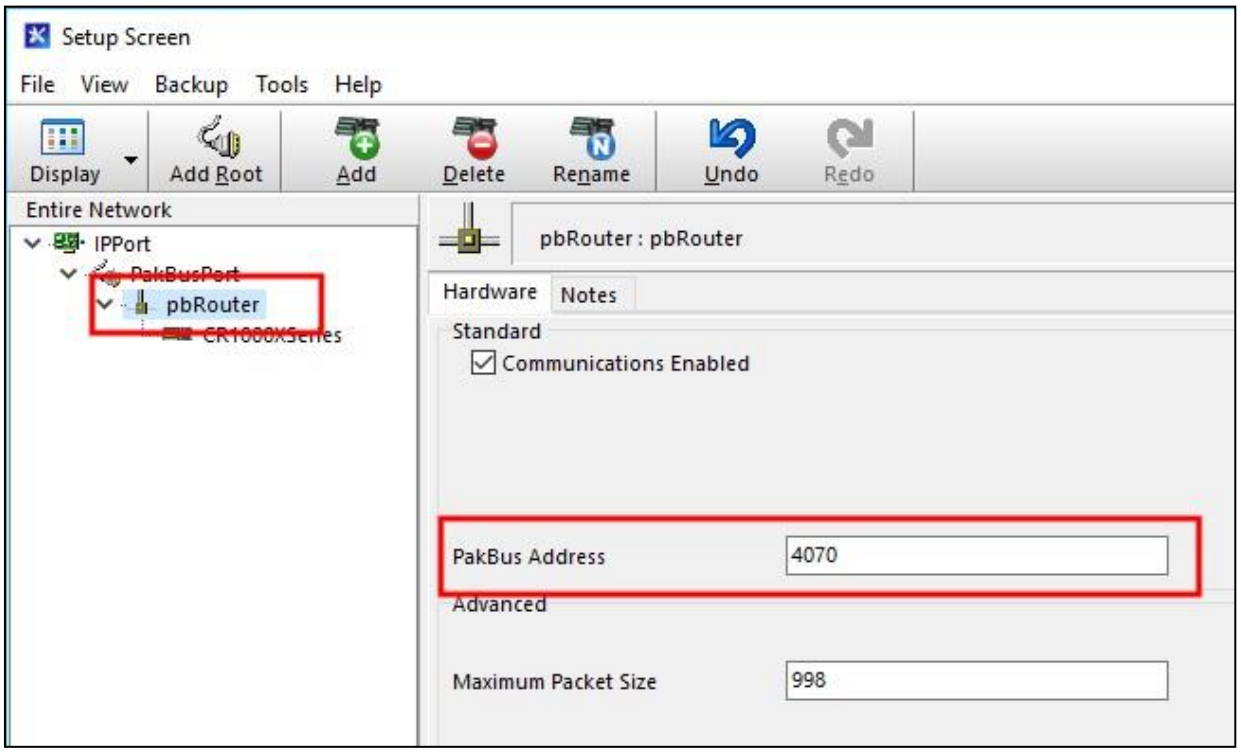
NOTE Address format: dddd.konectgds.com:pppp



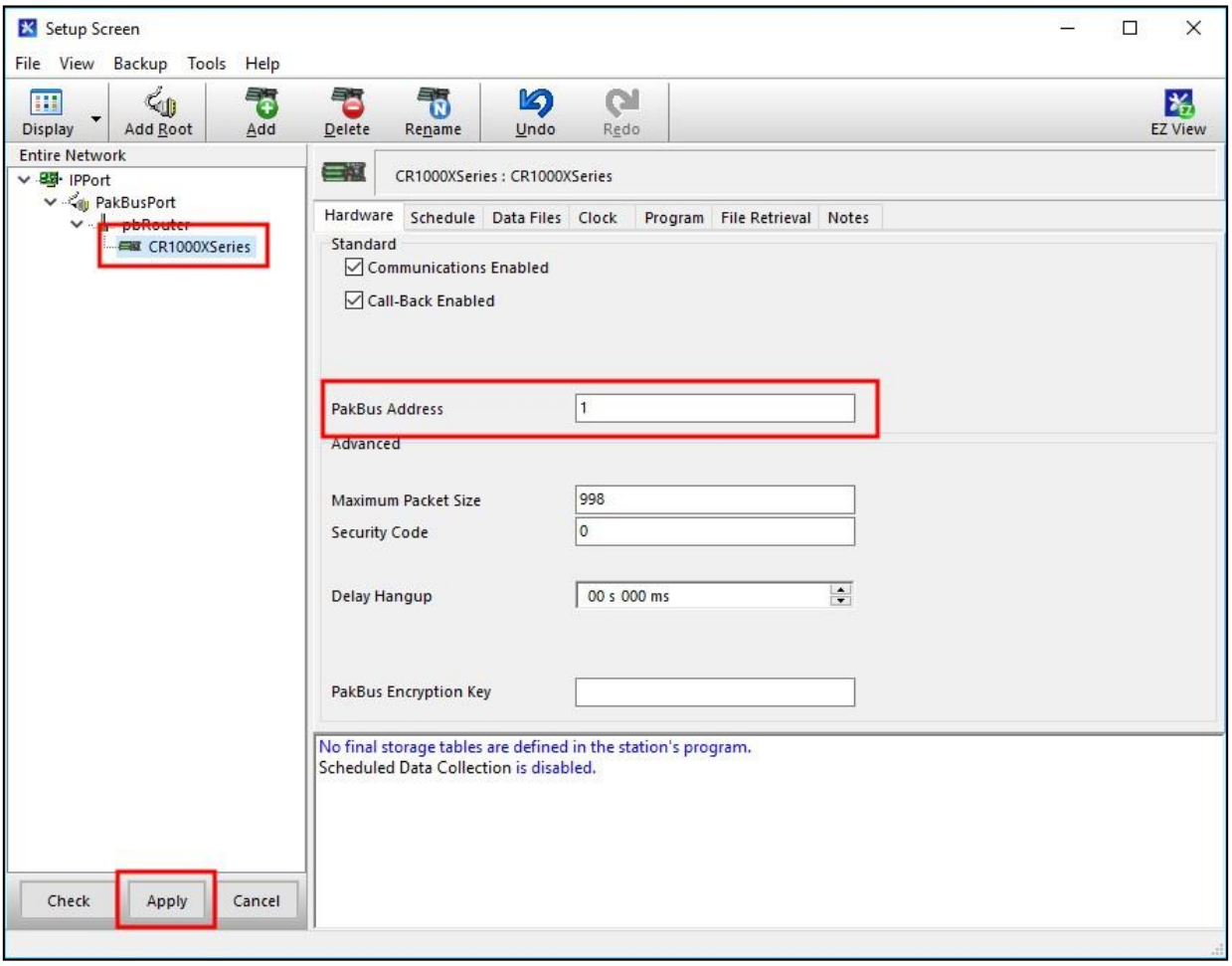
3. Leave the default settings for the PakBusPort. PakBus Port Always Open; it should not be checked. If you set or were provided with a TCP Password, enter it on the PakBusPort Hardware tab.



4. Select pbRouter from the Entire Network. On the Hardware tab, enter 4070 in the PakBus Address box.



5. On the data logger Hardware tab, enter the PakBus Address provided on the Premium Konect PakBus Router certificate.

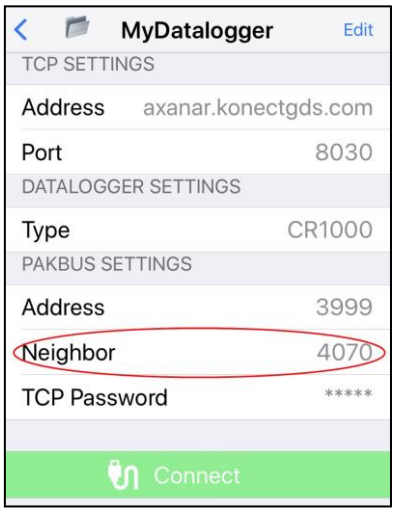


6. Apply to save your changes.

7. Apply power to the data logger and cellular module. On the Clock tab, Check Clocks. When communications are successful, the Station Date/Time field will update.

4. Set up LoggerLink (optional)

LoggerLink mobile apps are another way to connect to your data logger through the Konect PakBus Router. When using LoggerLink the PakBus Neighbor setting must be set to 4070.



See the help in LoggerLink or https://www.campbellsci.eu/loggerlink for more information.

5. Maintenance and troubleshooting

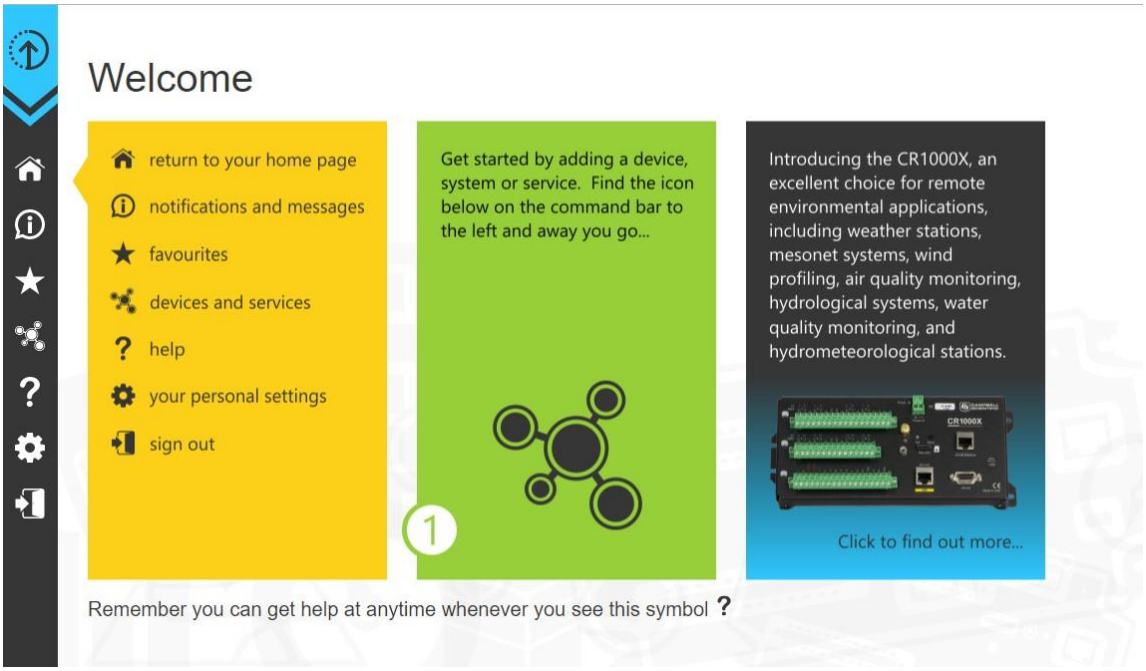
5.1 Review

1. The data logger was configured to use the information received during the Konect PakBus Router setup. The data logger now maintains a connection with the Konect PakBus Router.
2. LoggerNet has been configured with information received during the Konect PakBus Router setup. LoggerNet can now connect through the Konect PakBus Router to the data logger.

5.2 Status

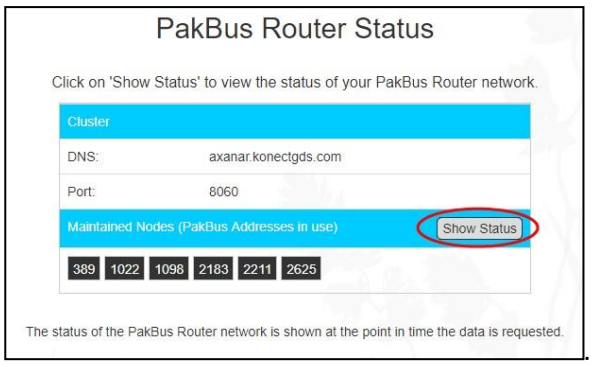
Check the connection status between the data logger and Konect PakBus Router.

1. Sign in to www.konectgds.com using your Passport ID and Password.



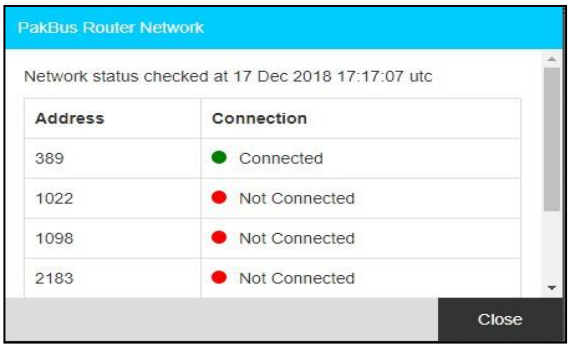
2. Click devices and services on the command bar and select View PakBus Router Status.

3. The next screen shows the DNS, Port, and assigned PakBus addresses. Click Show Status.



4. A Connected status indicates that the data logger has successfully established a connection to the Konect PakBus Router.

NOTE This does not indicate the communication status with LoggerNet.



5. To troubleshoot a Not Connected status:

   - Verify the data logger and module have adequate power.
   - Verify the module is connected to the Internet.
   - Verify settings in the data logger are configured correctly and network services have been configured with the correct address and port number.

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