

Using the Fieldserver to Snoop on a RS-232 Line.

Intro

A driver called snoop232 has been developed to allow the use of a FieldServer with 2 serial ports to eavesdrop on a 232 line.

The current state of the driver is 'dirty'. It has not been cleaned-up, test scripts are not present and it does not meet any of the QA requirements.

It has been used successfully at 2400 baud on a FS40 during testing of the DartIII device.

Description

Break the connection between the two sRS-232 ports by connecting the one device to Px and the other device to Py.

The driver takes all bytes received on Px and transmits them on Py and takes all bytes received on Py and transmits them on Px.

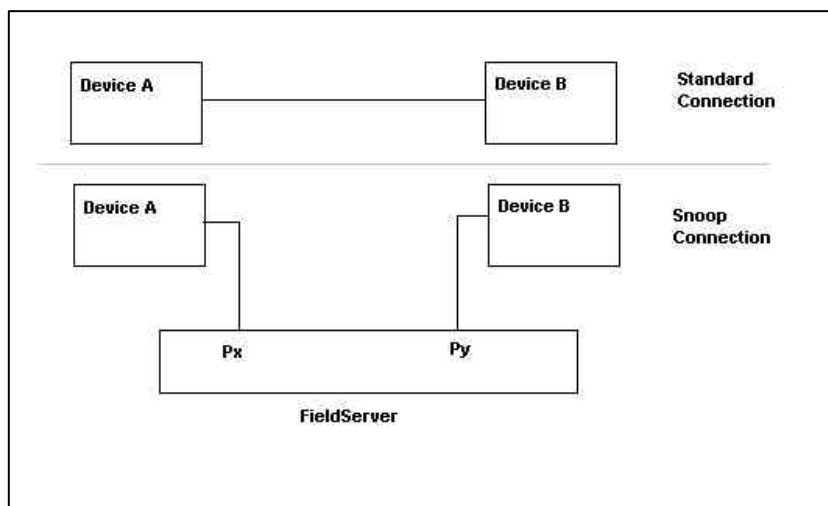
Using the RuiDebug utility and monitoring Px will give you a log file of the bytes being transmitted / received on the connection.

```
// Common Information
//
Bridge
Title
RS232 Snoop
//=====
//
// Client Side Connections
//
Ports
Port, Baud, Secondary_port, Protocol
P1 , 2400, P2      , Snoop
```

Configuration

In this config serial ports P1 and P2 are used.

Connection



Limitations

When using timing on the RuiDebug utility false reading will be given for the inter-byte delay as the kernel collects 8 bytes at a time before exposing them to the driver's. If there are less than 8 bytes in the in buffer then a timeout (10msec at most) must elapse before the kernel exposes the remaining bytes to the driver.

Handshaking could be a problem,

Steps to Completion

Obsolete code need cleaning and removal.

Test Scripts

Lint

Revision Control

Date	Driver Version	Document Revision	Resp	Comment
<i>14May2002</i>	<i>1.00a</i>	<i>0</i>	<i>PMC</i>	<i>Initial Release</i>