## Subject:Monitoring INTREPID MicroPoint or MicroNet over a LANRE:Lantronix UDS-1100Date:August 31, 2007

Technical Note #210A was created to explain INTREPID MicroPoint or MicroNet monitoring over a LAN using a Lantronix UDS-10 Device Server. The UDS-10 Device Server has since been discontinued by Lantronix and replaced with the UDS-1100 Device Server. This Technical Note explains INTREPID MicroPoint or MicroNet monitoring over a LAN using a Lantronix UDS-1100.

Southwest Microwave has confirmed the communication and operation of the INTREPID MicroPoint and MicroNet systems from a Windows 2000 workstation over a NT Base Network running on TCP/IP with the Lantronix Model UDS-1100 Device Server. Contact Lantronix at (949) 453-3990 by fax at (949) 453 3995 or at <a href="https://www.lantronix.com">www.lantronix.com</a> for compatibility to your network, programming and purchase of the UDS-1100 Device Server.

Your network administrator will be responsible for programming of the UDS-1100 Device Server, assigning the IP address, and installing the Lantronix Comm Port Redirector software on the workstation(s). The network administrator may also be responsible for installing the INTREPID MicroPoint or MicroNet software on the workstation(s).

The monitoring workstation(s) must be updated with all current Microsoft patches, Service Packs, Installers and .NET services prior to configuring the Lantronix UDS-1100.

The INTREPID MicroPoint or MicroNet's NIM or Adapter serial port is connected to a Lantronix Model UDS-1100 Device Server. This device converts the INTREPID MicroPoint or MicroNet serial data into network format and establishes a network port with an IP address. The monitoring workstation(s) is loaded with Lantronix Comm Port Redirector software. The Comm Port Redirector intercepts INTREPID MicroPoint or MicroNet software communications to the PC's specified COM port and redirects it to the PC's network port and over the network to the associated UDS-1100. The UDS-1100 reconverts it to serial data. This enables the PC to connect to the INTREPID MicroPoint or MicroNet system over the network just as if the system were connected directly to one of the PC's physical ports. Note that only one workstation may be connected to the UDS-1100 at any time. If additional workstations need to communicate to the system, additional UDS-1100 Device Servers will be required. NOTE: when multiple PC's are used to monitor a MicroPoint/MicroNet system each workstation requires a unique PC address be assigned via the Installation Service Tool software.

With this configuration any workstation(s) loaded with the Lantronix Comm Port Redirector software and INTREPID MicroPoint or MicroNet software would be able to communicate to INTREPID MicroPoint or MicroNet system(s) over the network.

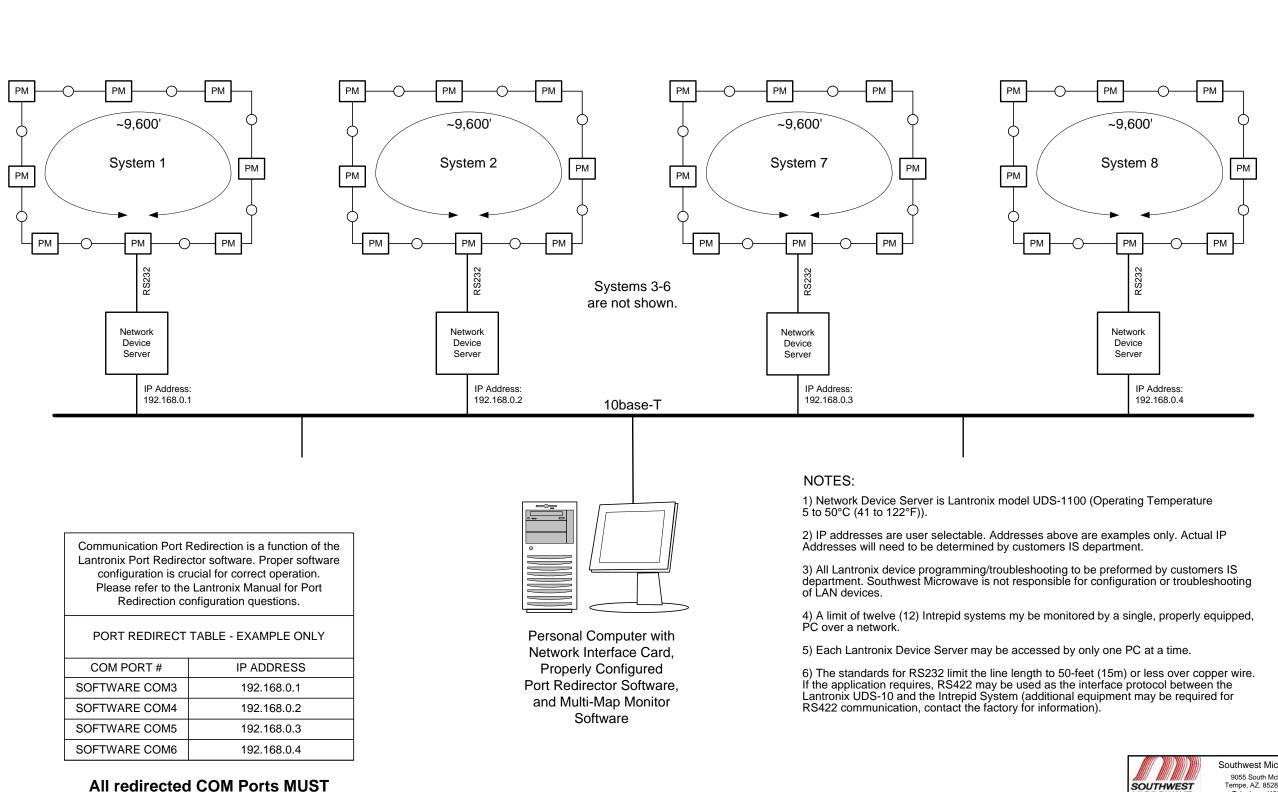
Before configuring the workstation(s), the Lantronix UDS-1100 must be programmed and an IP address assigned. You will not be able to communicate to the INTREPID MicroPoint or MicroNet system until your LAN system can find the UDS-1100 module.

In order to communicate with your INTREPID MicroPoint/MicroNet system over the LAN, the Lantronix Comm Port Redirector application and INTREPID MicroPoint or MicroNet software must be installed on the workstation(s). Because each PC is configured differently, your PC may need additional configuration or the network administrator may have to load the software. The Comm Port Redirector intercepts communications to specified COM ports and sends them over an IP network connection to the USD-1100's serial port. This enables the PC to use the UDS-1100's serial port as if it were one of the PC's physical COM ports.

Follow these steps to load and configure the Comm Port Redirector application (Windows 2000 workstation):

- 1. Install the Redirector software. The software and installation instructions are included on the distribution CD. Redirector Version 3.1.0.1 was used in our test.
- 2. Once installed launch the Redirectors configuration program (Start>Programs>Lantronix>Redirector>Configuration).
- 3. You will need to configure a communication port that is not currently being used on your machine (typically number 3 to 12). To select a port click on the Com Setup button and select the port you would like to use.
- 4. In the Port Configuration Redirect box make sure that the same port is selected. If it is not click on Com Setup and select the correct port.
- 5. Click on the ADD IP button.
- 6. In the Host box, type the IP address supplied by your network administrator.
- 7. In the TCP Port box, type the port setting assigned to the UDS-1100 Device Server.
- 8. Click the Port Settings button and select RAW Mode for the COM port.
- 9. Click on OK and then on SAVE to accept the parameters.

Now that the software has been loaded and configured you should be able to open any of the INTREPID MicroPoint or MicroNet monitoring programs, change the connection port to match the redirect port and connect to the system through the UDS-1100. The connection from the UDS-1100 to the INTREPID MicroPoint/MicroNet system is the same as shown for the computer connection in Figure 14:21 of the Installation and Operations Manual.



be configured as RAW Format.

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## **TECHNICAL NOTE # 210B**

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