



## Using the UT-3302 for Secure Remote Management via Serial ports and/or Telnet

Many critical asset devices need to be managed via serial and/or telnet ports. Frequently, only personnel with the specialized knowledge to manage those assets have authorized access. The UT-3302 is the right product to protect the critical assets from general accessibility while allowing serial and telnet access to those who need it. The UT-3302 makes remote access both secure and easy.

This application shows several access scenarios and illustrates the simple setup required to configure the UT-3302. The figures below show access from a remote PC running the client software program, UT-Soft, used to connect to the UT-3302 hardware box. From the PC, a user can telnet to the UT-3302 serial server port, or can telnet directly to the unit secured behind the UT-3302 on the trusted Ethernet side.



Accessing devices from within a network only requires one UT-3302 server and UT-Soft on the remote work station

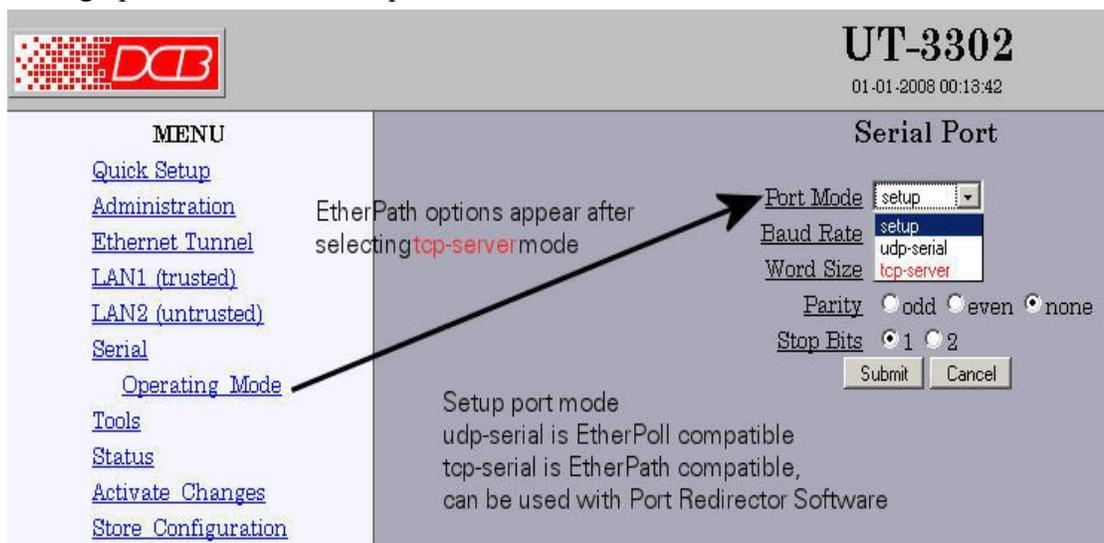


Accessing devices from outside, through the Internet is identical, even if using DHCP or dynamic IP addresses on the remote work stations.

The UT-3302 can provide simultaneous access to a secure Ethernet subnet and a telnet TCP or UDP serial port. Configuration of the UT-3302 serial port is simple and straightforward.

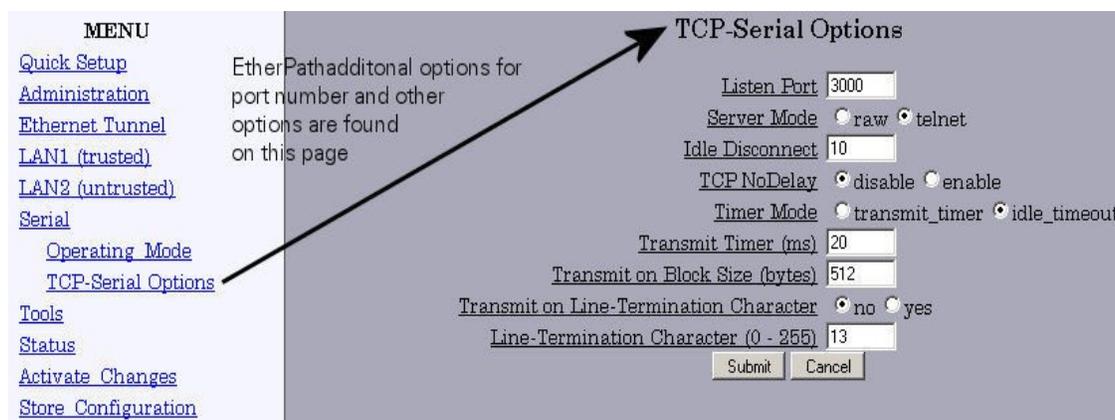
The UT-3302 is managed using a web browser. Below are screen shots that show the few steps required to configure the serial port (if necessary). The screen shots also show the simple steps required to install the UT-3302 in a network and set up authorized client users. Encryption for communications with the UT-3302 can be enabled or disabled.

### Setting up the UT-3302 serial port.



Select the Serial configuration option on the above screen. Select the TCP-server mode for telnet access from a PC to the UT-3302 serial port. This gives the PC user a remote PC serial port to access remote device serial port.

EtherPath serial server setup in the UT-3302 is shown below.



The above default setting works for most applications. You can click on any of the underlined terms and a help screen will open on your browser with further details for that setting option.

## Quick Setup for the UT-3302

**Quick Setup**

This page contains all items needed for a typical point to point (1 client to 1 server) configuration.  
[Press here for application diagrams.](#)

<p><b>LAN1 (trusted)</b></p> <p>Configure IP <input type="radio"/> automatic-via-DHCP <input checked="" type="radio"/> Static-Configuration</p> <p><b>Static-Configuration</b></p> <p>IP Address <input type="text" value="192.168.1.125"/> Subnet Mask <input type="text" value="255.255.255.0"/> Gateway <input type="text"/></p>	<p><b>LAN2 (untrusted)</b></p> <p>Configure IP <input type="radio"/> automatic-via-DHCP <input checked="" type="radio"/> Static-Configuration</p> <p><b>Static-Configuration</b></p> <p>IP Address <input type="text" value="205.166.54.133"/> Subnet Mask <input type="text" value="255.255.255.0"/> Gateway <input type="text"/></p>
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**Ethernet Tunnel**

Shared Secret

Encryption

Mode  server  client  both

**Server Mode Settings**

Authorized Client Name1   
Authorized Client Password1   
Server Port

**Client Mode Settings**

Client Name   
Client Password   
Remote Server IP   
Remote Server Port   
Interface

To use the UT-3302 strictly as an Ethernet tunnel with encryption, all options can be configured on a single setup screen, shown above.

Extensive diagnostics and logging options are available as well. Ping, timeout, traceroute and other tools are built into the UT-3302. See an example Serial Status screen below.

**Serial Status**

tcp-serial EtherPath mode Serial Status screen

Network (0.0.0.0:0)

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Bytes Received: 0  
Bytes Transmitted: 0  
Transmit Dropped: 0

Serial

-----

Bytes Received: 0  
Bytes Transmitted: 0  
Transmit Dropped: 0

---

```
01-01-2008 00:00:00 ---Started---
01-01-2008 00:00:00 UDP listening on port 3000.
01-01-2008 00:00:44 Received termination signal.
01-01-2008 00:00:44 ---Terminated---
01-01-2008 00:14:12 ---Started---
01-01-2008 00:14:12 UDP listening on port 3000.
01-01-2008 00:19:34 Received termination signal.
01-01-2008 00:19:34 ---Terminated---
```