APPLICATION NOTE:

Establishing I/O communication between AnyBus-S EtherNet/IP and EIPScan Test Tool

Revision Notes

Date:	Revision:	Notes:	Responsible
2003-04-18	0.10	Document created	Joakim Wiberg
2003-07-30	0.20	Updated layout	Joakim Wiberg
2007-07-25	2.0	Revision	Thorbjörn Palm

Abbreviations

ESTT	EIPScan Test Tool

# 1. System configuration overview

This is an example on how to configure the Anybus-S Slave module to connect with EtherNet/IP Scan Test Tool from Pyramid Solutions. It is possible to use this document as a guide on how to set up any "generic" EtherNet/IP module from HMS under EtherNet/IP Scan Test Tool, ESTT.

This application note assumes that ESTT are installed and working correct.

The ESTT is set up to read and write 32 bytes of I/O data from and to the Anybus-S Slave module.
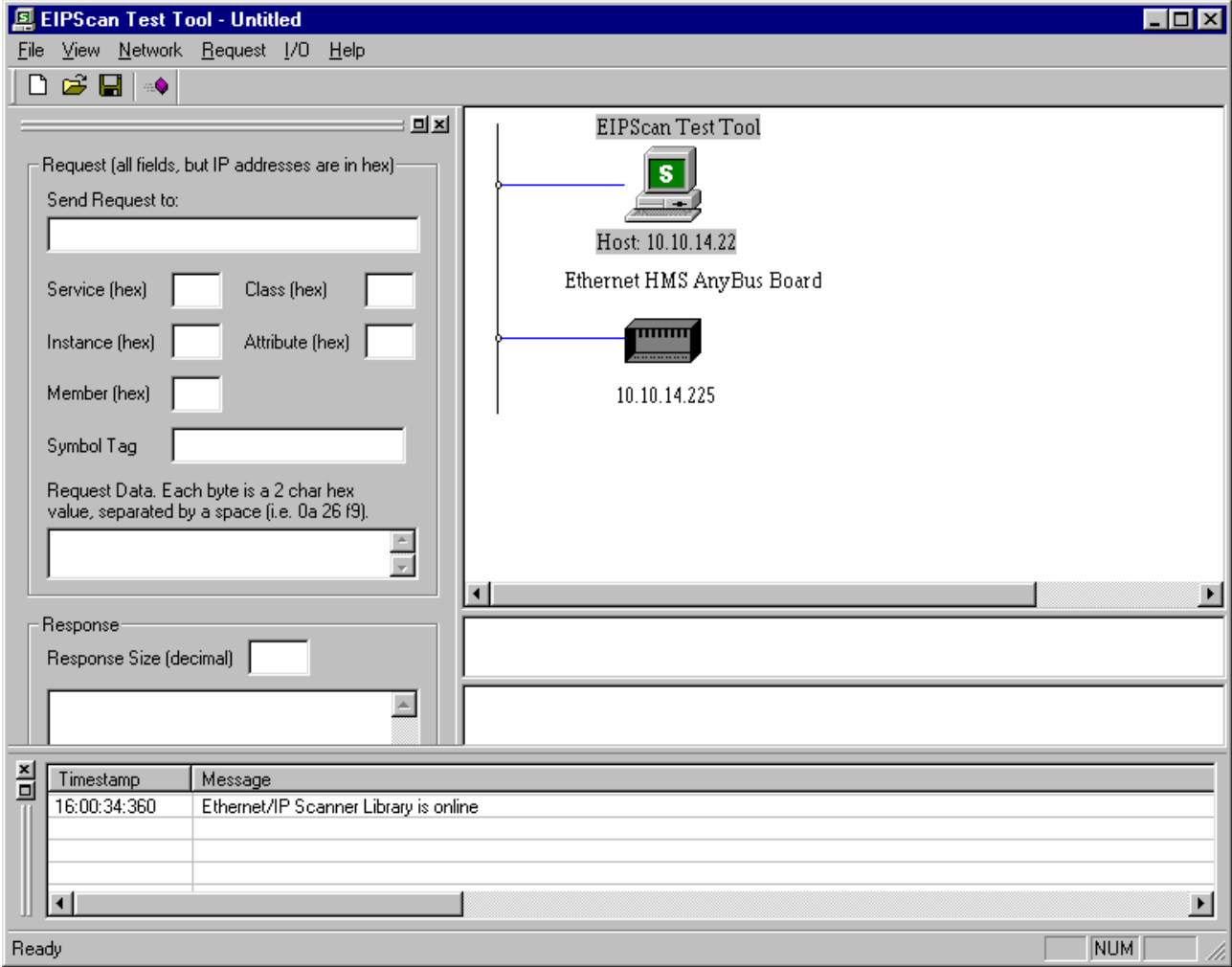
2. Configure the ESTT

Add the Anybus-S Slave module to the configuration in the ESTT. Start by right click in the "network" area, and select "Add Device".
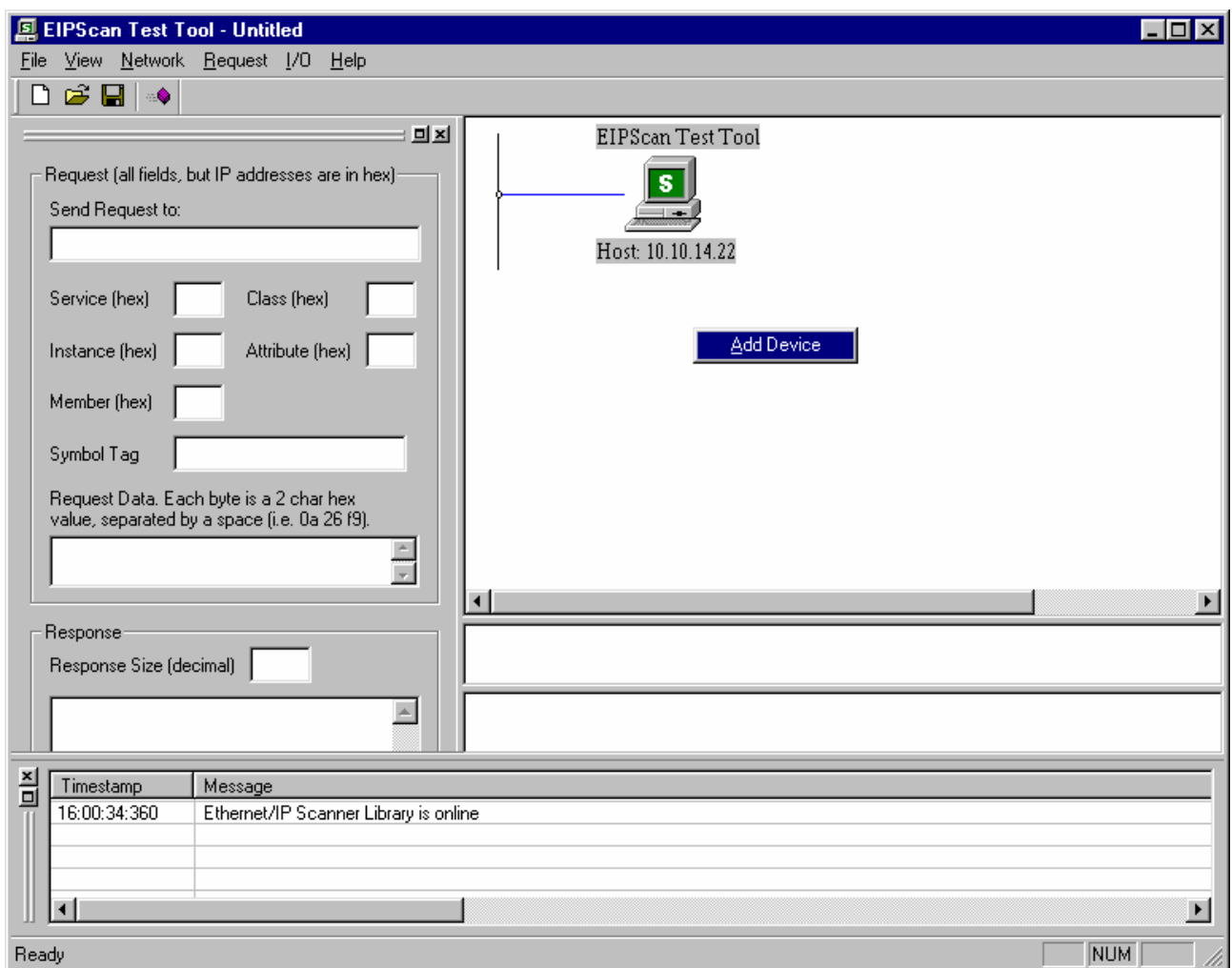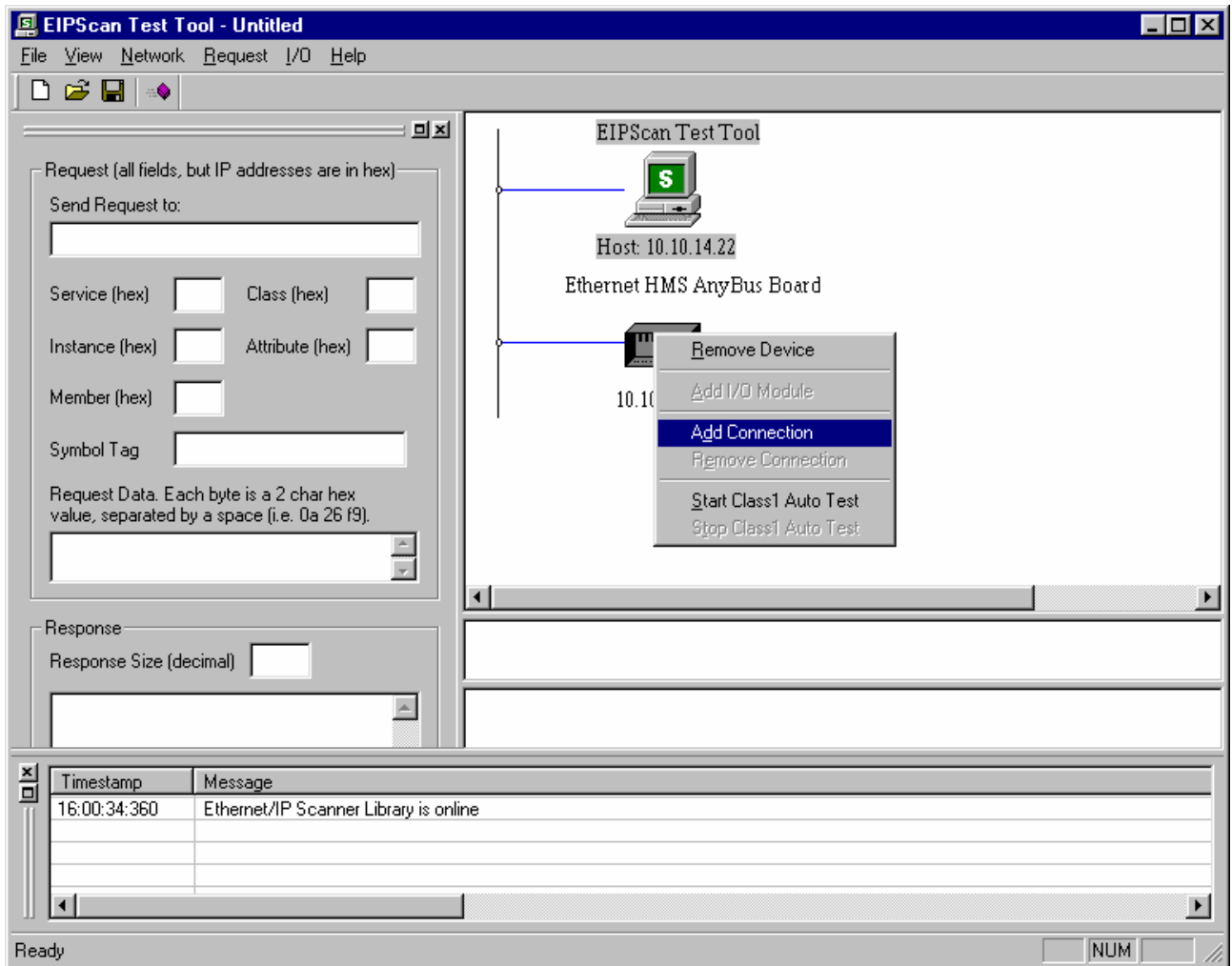
Now a dialogue window will appear. In this dialogue window the IP address of the Anybus-S Slave module shall be entered, here 10.10.14.225 is used.
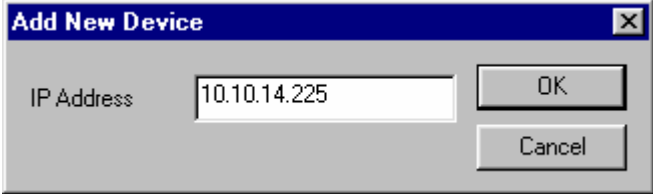

The Anybus-S Slave module will now occur in the "network" area.

Right click on the Anybus-S Slave module and select "Add Connection".

A new dialogue window will now occur; it contains six property pages used to set up the connection. In the first page it's possible to select connection and transport type. To reduce the network load the setting for "Target -> Originator" have been changed from "Multicast" to "Point To Point", the rest are left unchanged.
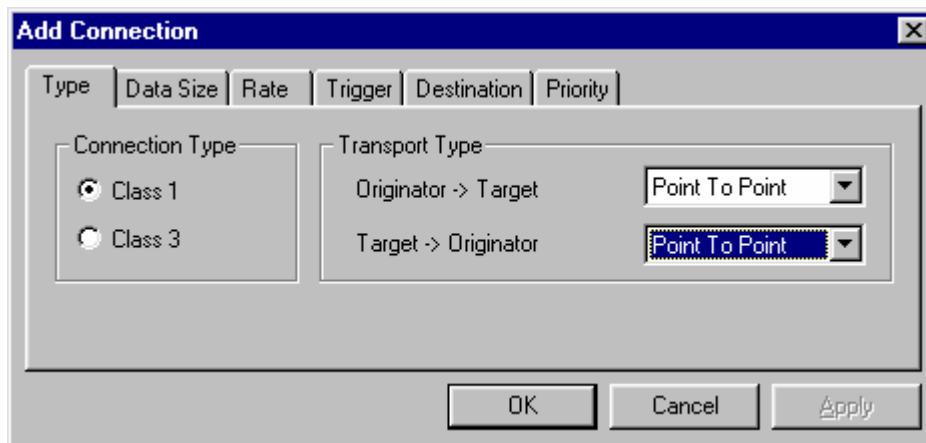
The second tile contains the data sizes; here we use 32 bytes in each direction since this is how the module was initiated.
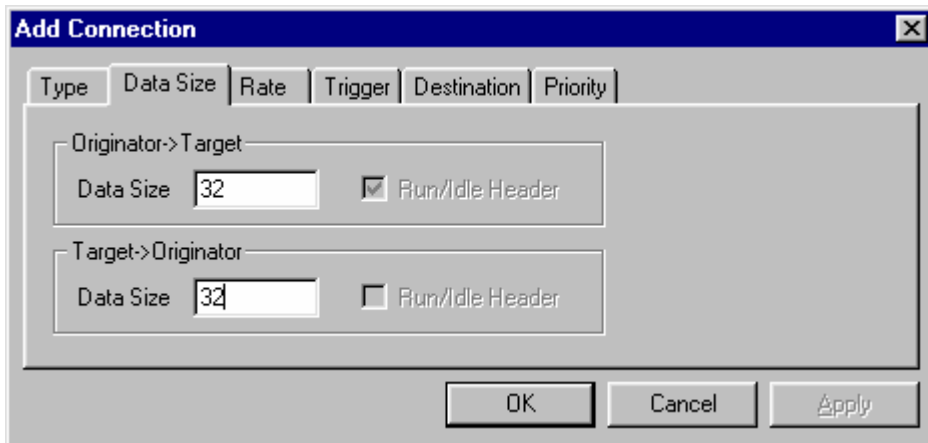
The "Rate" tile holds the RPI (requested packet interval), this is how often data will be produced and consumed (in ms).
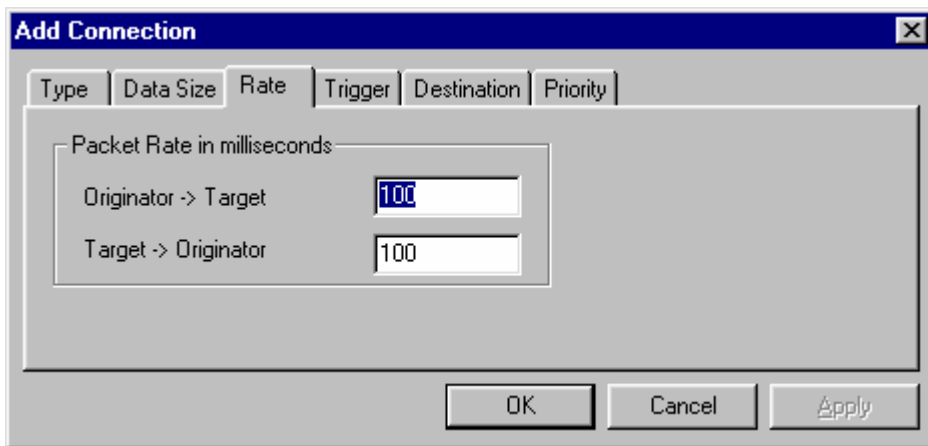

In the "Trigger" tile the transport trigger and the timeout multiplier are selected. The Anybus-S Slave module only supports "Cyclic" triggers. The timeout are set to the default value of 16.
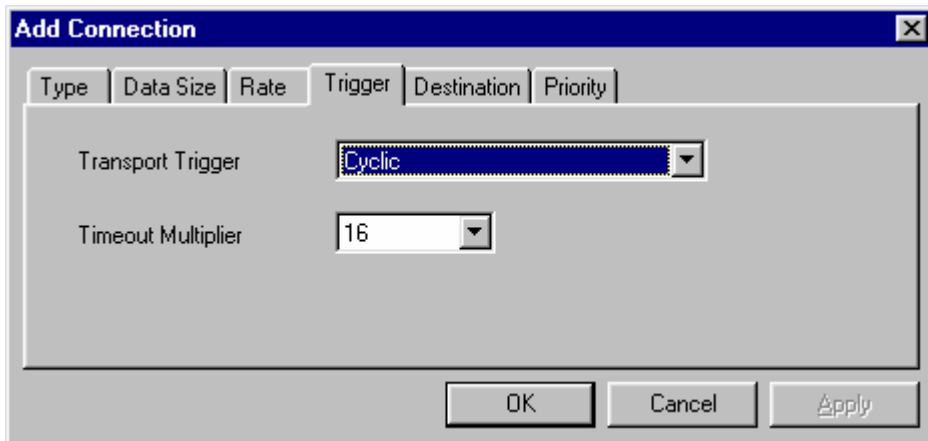

The "Destination" tile is used to set up the connection points in the Anybus-S Slave module. The ESTT is to by default display the correct connection points, make sure that the connection points are
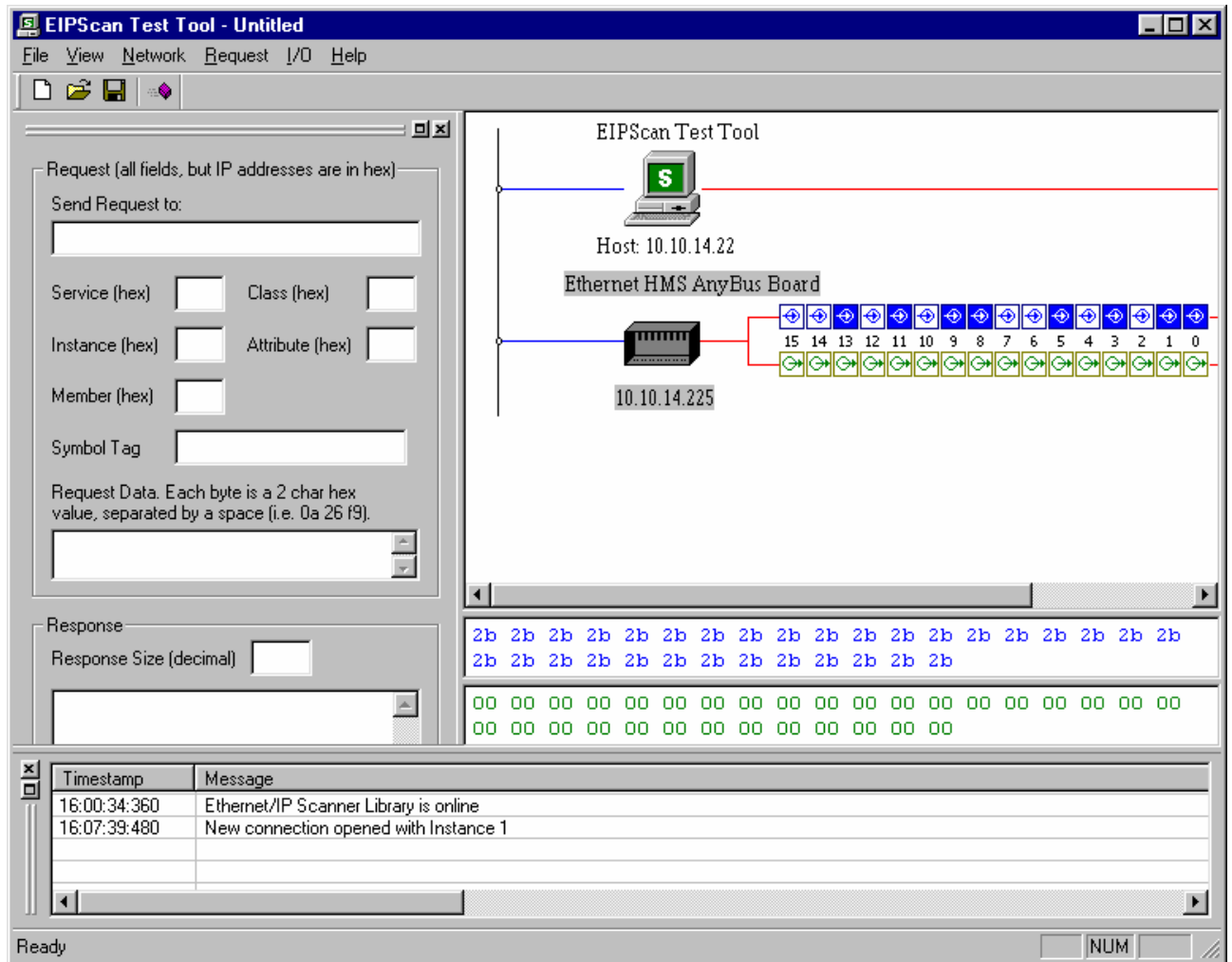
configured as below. Adjust the connection points if they do not match what is stated in the manual for the product.
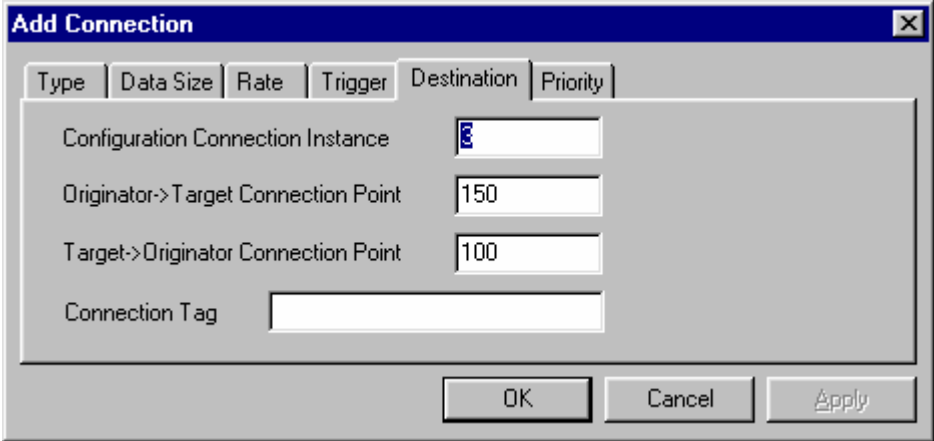
In the "Priority" tile it is possible to set the priority of the connection, for the moment the ABS only supports "Scheduled". Now press "OK" and the connection will be opened.
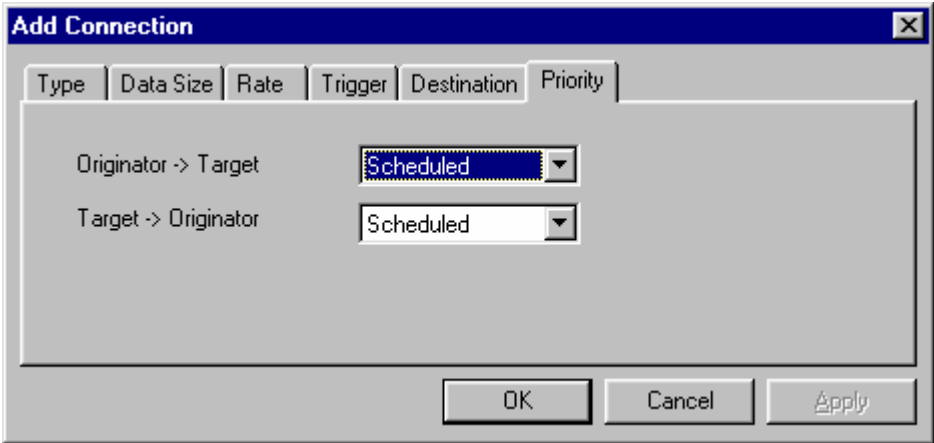
This is how the screen on the ESTT looks if the connection has been opened.

3. Links to information about networks and products

- The latest for the ABS module can be found on the HMS homepage http://www.anybus.com.

- The Open DeviceNet Vendor Organization has a homepage, http://www.odva.org/, with more information about EtherNet/IP.

- To learn more about the EIPScan Test Tool refer to the Pyramid Solutions homepage http://www.pyramid-solutions.com/Expertise_DataCom_Products_EtherNetIP_Scanner_Simulator.htm.

4. Support

HMS Sweden

Email: support@hms-networks.com

Phone: +46 (0)35-17 29 22

Fax: +46 (0)35-17 29 09

Online: www.hms-networks.com

HMS America

Email: us-support@hms-networks.com

Phone: +1.773.404.2271

Fax: +1.773.404.1797

Online: www.hms-networks.com

HMS Japan

Email: jp-support@hms-networks.com

Phone: +81 45 478 5340

Fax: +81 45 476 0315

Online: www.hms-networks.com

HMS Germany

Email: ge-support@hms-networks.com

Phone: +49 721 964 72157

Fax: +49 721 964 7210

Online: www.hms-networks.com