NCD ThinSTAR

Software

NCD ThinSTAR 300TR
Release Notes

Revisions

Revision history of this document:

Part Number	Revision Date	Description
9300860	June, 1999	NCD ThinSTAR 300TR Release Notes

Introduction

This document provides information about the NCD ThinSTAR 300 Token Ring terminal. Token Ring is network technology that defines the hardware connection to a network, as does Ethernet. The ThinSTAR TR product family adheres to the Token Ring standard defined by the IEEE 802.5. The Ethernet standard is defined by IEEE 802.3. Both standards define the hardware connection method and how data gets on and off a network.

Networking protocols such as TCP/IP operate the same over Token Ring as over Ethernet. You use the same Graphical User Interfaces (GUIs), user commands and functions as before. The IP address is the same under Token Ring as under Ethernet.

The NCD ThinSTAR 300TR is a terminal with a Token Ring network interface to support Token Ring legacy networks. The terminal is not changeable to an Ethernet ThinSTAR terminal. The NCD ThinSTAR 300TR terminal is identified by the 300TR logo on the front plate of the terminal.

Actual size
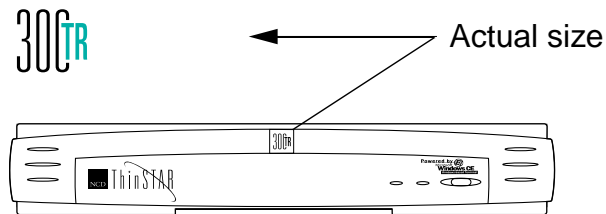
The network connection is made to the RJ45 connector on the back of the terminal.

RJ45 connector
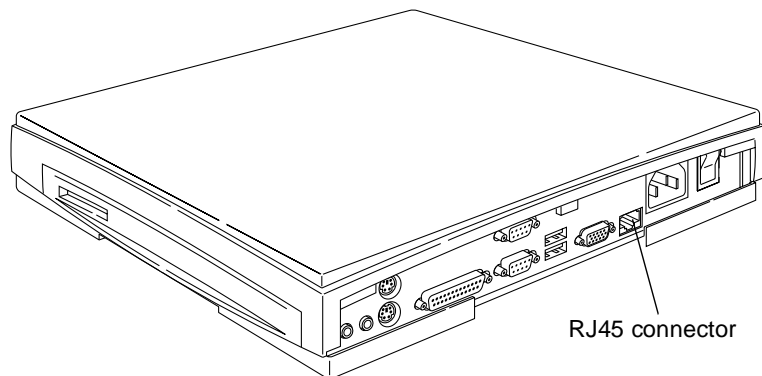
Network Speed

To set the Ring Speed, on the **Management** tab of NCD ThinSTAR Terminal Properties, click **Network Options**. The Network Options dialog box appears. Select LAN Connection and select the speed 4, 16, or Auto. Click **OK**.

Note   By default, the Ring Speed is set to **Automatically Sense Ring Speed**. We suggest you keep this setting. If you manually set the Ring Speed to the incorrect speed, you will bring down the entire ring.
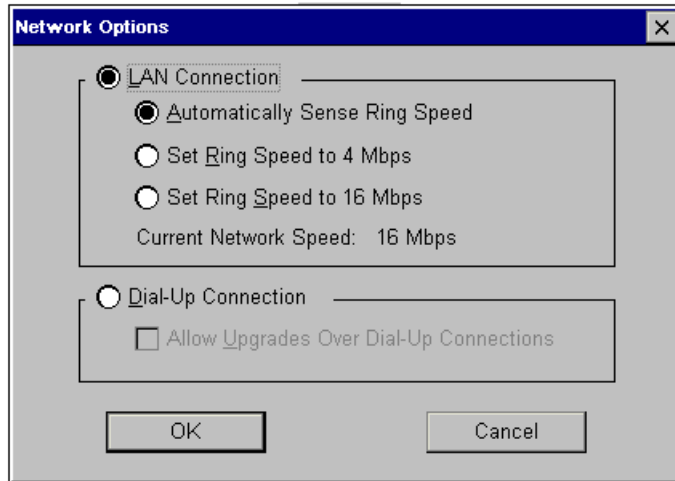
Universal Address

On the **Inventory** tab in the Network window the Universal Address reports the hardware address of the Token Ring network.

MTU Size

The Maximum Transmit Unit size is the packet size that can be transmitted for the NCD ThinSTAR 300TR across the network. The MTU size is 1500 bytes. This setting cannot be changed.

Locally Administered Address

The concept of locally administered address allows the administrator to assign a MAC address to a terminal to be used in place of the Universal assigned address. For this release, a Locally Administered Address is not supported.

Duplex

Full duplex is the ability to support receiving and transmitting at the same time. All Token Ring MAU, hub, and switches support half-duplex mode, only some MAU, hub, or switches support full-duplex mode. Half-duplex does not allow receiving and transmitting at the same time. For this release, only half-duplex is supported.

ThinSTAR Management Service (TMS)

The TMS window shows NCD ThinSTAR 300TR components in the software list as well as NCD ThinSTAR300 and NCD ThinSTAR200 components.

Note Only core components are listed for the NCD ThinSTAR 300TR. The NCD ThinSTAR 300TR uses the settings for the NCD ThinSTAR300, so do not turn off the NCD ThinSTAR300 components when upgrading.

Troubleshooting

Connecting to a Token Ring network is similar to connecting to Ethernet. There is a single twisted pair connector that connects to a Token Ring hub instead of an Ethernet hub using standard network cabling. One major difference, is the Token Ring network hardware senses an active connection or a powered on ThinSTAR unit and automatically disconnects and connects the ThinSTAR from the network ring. The ThinSTAR unit also auto senses the Token Ring speed at 4 or 16 megabytes per second. This setting can be changed once the unit is booted. See page 4 for more information.

The ThinSTAR unit will display an error message in red on its boot screen if it can not make a connection and send and receive data on the ring or Token Ring network. The following error message appears when the cable is not connected properly:

```
--TOKEN-RING OPEN failure (10:1) Network
Connection.
```

```
--SE000016 NETWORK CONTROLLER FAILURE
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