

READ ME FIRST

PCI/EISA ODI ATM LAN Driver

Read This Before You Begin!

Description

This document contains information for the Interphase PCI/EISA ODI ATM LAN Driver (INPHATM.LAN). This driver requires the Novell ATM LAN Emulation Client software modules. Features currently supported include:

- NetWare 4.11, NetWare 5.0, DOS/Windows 3.x, and Windows 95 operating systems using Novell's Client32 requester software
- PVC and SVC connection types
- Ethernet and Token Ring emulated LANs
- Multiple ELANs per adapter
- Up to 32 adapters per system
- UNI 3.0 and UNI 3.1 ILMI signaling protocols
- ATM Adaption Layer 5 (AAL5)
- Configurable for SONET or SDH framing types
- Utilizes all Interphase PCI and EISA based 25Mbps and 155Mbps ATM hardware
- Autodetection of 1K VC and 4K VC hardware

Installation

NetWare 4.11 and 5.0

- You must use the server version of ATMTSM.NLM. This must be installed on the server before installing the Interphase ATM driver software. Refer to the Novell ATM technical information and frequently asked questions (FAQ) documents for details on installing the Novell ATM LAN Emulation Client software.
- The Interphase ATM driver software should be installed and configured using INETCFG.NLM. Refer to the Novell ATM technical information and FAQ documents for details on installing and configuring ATM adapters. Information on INETCFG.NLM can be found in the NetWare OS documentation titles 'Basic Protocol Configuration' and 'Advanced Protocol Configuration and Management Guide'.
- The Interphase ATM driver will autoload PARSER.NLM and ATMTSM.NLM if not already loaded.

Windows 95 and DOS/Windows 3.x

- You must use the Client32 version of ATMTSM.NLM
- You must install Novell's Client32 software before trying to install this driver. During the Client32 software install you will be given an opportunity to select and install the Interphase driver software.

Configuration Options

Described below are the Interphase ATM driver configuration options available within the INETCFG.NLM utility.

- **Board Name:**
This option specifies a name to associate with the driver instance. This name must be unique and is required for the driver to load.
- **MTU Size:**
This option specifies the maximum transmission unit size. This is also referred to as the maximum frame size. It specifies the largest frame that may be transmitted on or received from the network. The recommended MTU size for emulating an Ethernet LAN is 1516. The recommended MTU size for emulating a Token Ring LAN is 4544. The default is 1516.
- **Slot:**
This option specifies the slot number that corresponds to the expansion slot where the ATM adapter is installed. Single adapter installations do not need to specify a slot number. Multiple adapter installations are required to specify the slot number for each adapter installed in the system.
- **ESI:**
End Station Identifier (MAC address) override. The value entered will override the ESI on the adapter. You may choose 'UNDEFINED' to use the original ESI stored on the adapter.
- **Buffers:**
This option specifies the maximum number of receive buffers available to the driver. Generally, the more buffers made available to the driver will result in less of a chance that receive packets will be dropped. The driver may limit this maximum number based on adapter memory constraints and MTU size. The default is 50.
- **Framing:**
This option specifies the framing mode of SONET or SDH. The default is SONET framing.

Troubleshooting Tips

- The yellow light on the adapter should flash approximately once every second. If it does not flash, the driver is either not loaded or the host system is not functioning correctly.
- Status of the adapter may be obtained by re-loading the driver with the additional load line parameter of STATUS. For example,

```
LOAD INPHATM.LAN NAME=INPH1 STATUS
```

will display the status of the adapter driver previously loaded and named INPH1.

- If incorrect SLOT= parameter values are specified the driver will not load. It will, however, display the valid slot values where Interphase ATM adapters were found. This information may be used to correct the invalid slot parameter values.

Outstanding Issues

- Ethernet ELAN MTU size is restricted to 1516 bytes. Token Ring ELAN MTU size is restricted to 4544 bytes. No 9234 byte or larger MTUs are supported by the Novell ATM LAN Emulation Client software as of version 1.03.
- Shared interrupts are not yet supported using the Novell ATM LAN Emulation Client software version 1.03 or earlier. Erratic behavior may be observed if interrupts are shared between an ATM adapter and any other adapter in the host system.
- Client32 configurations will establish connections only to the well-know LECS address when using Novell ATM LAN Emulation Client software version 1.01L or earlier.

Contact Information

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