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# **PCnet<sup>TM</sup> Software Version 5.0**

## Release Documentation

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## Introduction

This is the release notice for the PCnet™ Family Network Drivers Revision 5.0 software (object code and limited source code). The software is available on AMD's internal web site <http://SSEOnline> and will be available via the web ([www.amd.com](http://www.amd.com)) and CDROM shortly after release.

PCnet™ Driver Release 5.0 is a major release that is intended to fulfill the following marketing and support requirements:

- Provide latest drivers that resolve a number of issues that have been found through internal testing and by external customers
- Provide support for PCnet-PRO devices
- Provide support for the Fiber interface on PCnet PCI devices
- Synchronize all OEM/LT customers with the latest drivers and utilities
- Release brand new drivers that meet the latest NOS specifications
- Enhance existing drivers to provide new features detailed in the respective readme.txt files for those drivers. This includes enhancements to the NDIS 5 driver to add support for deserialization and 802.1p. The enhancements to specific drivers are listed in this document as well.
- Includes AMD PCnet-PolicyAccess and AlertIT v2.0 software

This release includes previously released as well as new or enhanced drivers and utilities. The following is the list of new or enhanced drivers and utilities:

- CHSM Driver for NetWare 4.1x and NetWare 5.x
- AHSM Driver for NetWare 4.1x and NetWare 5.x
- NDIS 2.0.1 Drivers (DOS version 6.x, OS/2 version 3.x and 4.x) (OS/2 driver enhanced)
- NDIS 4.x Driver (for Windows NT 4.0 and Windows 95 OSR 2)
- NDIS 4 driver for Windows CE 2.1x
- NDIS 4 driver for Win NT Embedded
- NDIS 5 driver for Windows 98 and Windows 2000
- SCO UnixWare 7.0
- SCO UNIX Drivers (SCO ODT 3.0, SCO Open Server 5.0) (Open Server driver enhanced)
- PCnet-PolicyAccess Utility
- AlertIT v2.0 Software

**Known Problems:** Please refer to the release documentation pertaining to Release 4.5x for a list of known problems, and the readme.txt files associated with the newly released drivers and utilities in this release for the list of problems fixed in this release.

## Enhancements and Bug Fixes

### AHSM ODI driver for Netware Server 4.2, and 5.x

Version 4.22

#### What's new in this release

- ❑ Support for PCnet-FAST-PRO device has been added to this driver.
- ❑ This 32-bit ODI driver now supports the PCnet-FX Fiber Channel controller.

### NDIS2 driver for OS2

Version 4.07

#### What's new in this release

- ❑ Slow network performance when using Interrupt Sharing has been fixed.
- ❑ After heavy stress for a few hours, a drastic reduction in data transmission was observed. This problem has now been fixed.
- ❑ The maximum number of Transmit Buffers that the driver can support has now been increased from 16 to 32.

### MDI Driver for SCO Unix OpenServer 5.0

Version 4.04 for Openserver 5.0.4 and 5.0.5.

#### What's new in this release

- ❑ Added support for the AMD PCnet-Pro adapter
- ❑ Fixed a installation bug.

### NDIS4 Miniport driver for Windows 9x

Version 4.15 August 3rd, 2000

This package contains the non-failover driver files with the following version numbers.

- pcntn4m.sys ver 4.15 - NDIS4 miniport driver for Windows NT/ 9x
- pcnet9x.exe ver 4.13 - DMI application for Windows 9x

#### What's new in this release

- ❑ Support for fiber based NICs has been added. Options have been added to netamd.inf to select the media speed for fiber-based NICs.
- ❑ Support for 802.1p protocol has been added. The DMI application has been enhanced to support QOS (Quality of Service) features.
- ❑ The rc file (pcntn3.rc) has been modified so that failover messages are now logged in the Event Log.
- ❑ Fixed missing RX interrupt.
- ❑ Fixed OWNERMAP registry bug.
- ❑ Fixed issue with opening driver properties box and not making changes and having NT ask if you would like to restart the system.

### NDIS5 Miniport Driver for Windows 2000 and Windows 98 SE

Version 4.29, Date August 9, 2000

The NETAMD.INF file is used for both Win98 and Win2000 operating systems. They both use the same PCNTPCI5.SYS file.

#### What's new in this release

- ❑ Deserialization of nic miniport functions.
- ❑ 802.1p support

- ❑ User administrated network address
- ❑ Bug fixes to those submitted by MS as part of WHQL testing
- ❑ Fixed bug - transmit stalls under stress
- ❑ Support for WMI (DMI attributes)
- ❑ Support for fiber NIC

#### **NDIS5 Miniport Driver for Windows 2000 WHISTLER Only**

Version 4.29, Date August 9, 2000

##### **What's new in this release**

- ❑ Deserialization of nic miniport functions.
- ❑ 802.1p support
- ❑ User administrated network address
- ❑ Bug fixes to those submitted by MS as part of WHQL testing
- ❑ Support for WMI (DMI attributes)
- ❑ Support for fiber NIC

#### **NDIS4 Miniport driver for Windows NT**

Version 4.15 August 3rd, 2000

This package contains the non-failover driver files with the following version numbers.

- pcntn4m.sys ver 4.15 - NDIS4 miniport driver for Windows NT/ 9x
- amddlg.dll ver 4.13 - allows the user to configure features
- pcnet.exe ver 4.13 - DMI application for Windows NT

##### **What's new in this release**

- ❑ Support for fiber based NICs has been added. Options have been added to oemsetup.inf to select the media speed for fiber-based NICs.
- ❑ Support for 802.1p protocol has been added. The DMI application has been enhanced to support QOS (Quality of Service) features.
- ❑ The dll (amddlg.dll) has been completely redone. Keyword support is now handled inside the dll instead of the oemsetup.
- ❑ When 802.1p priority box is checked, the pcnet DMI service is configured to start automatically. When its not checked it is set to manual mode.
- ❑ The rc file (pcntn3.rc) has been modified so that failover messages are now logged in the Event Log.
- ❑ Fixed missing RX interrupt.
- ❑ Fixed OWNERMAP registry bug.
- ❑ Fixed issue with opening driver properties box and not making changes and having NT ask if you would like to restart the system.

#### **NDIS4 Miniport driver for Windows NT Embedded System**

Version 4.15 (08/07/2000):

This release contains the following distribution files:

1. amddlg.dll
2. oemnad14.inf
3. pcnet.exe
4. pcnet.hlp
5. pcnet.kdf
6. pcnet.mif
7. pcntn4m.sys

These are necessary files you need to incorporate PCNET driver software into your Windows NT embedded system.

**AMD PCnet-PolicyAccess Utility**

Version 1.0 (08/09/00)

AMD PCnet-PolicyAccess is a traffic-prioritization utility that enables the network administrator to prioritize traffic originating from PCnet NIC based desktops and servers. The utility enables setting up of priority filters to classify traffic and IEEE 802.1p based priority setting so that higher priority traffic gets processed before normal traffic in the network infrastructure. Critical applications and users can be given priority in the network in terms of latency and bandwidth requirements.

**AMD Web Based AlertIT Software for Advanced Systems Management**

Version 2.0.00

August 10, 2000

AMD's AlertIT Version 2.0 is a Web Based Enterprise Management based software solution that is designed to reduce enterprise TCO by providing desktop systems management functions in an enterprise network. With Web Based AlertIT, system administrators can remotely view client desktop management information through browsers and take necessary actions for the client desktop if the desktop is in an unexpected system failure mode.

The AMD AlertIT solution was developed based on the Microsoft's model of WBEM and follows the DMTF's 'CIM Operations over HTTP' standard.

This version of AlertIT is supported on Microsoft Windows 9x and Windows NT 4.0 based desktop platforms.