Tech Info Library

Network Software Installer ZM-1.5 Read Me (3/95)

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Security:       Everyone


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TOPIC -----------------------------------------------------------

This article is the Network Software Installer (NSI) Version ZM-1.5 Read Me
file.


DISCUSSION ------------------------------------------------------

PLEASE NOTE: "ZM"indicates multi-country.  This disk can be used to install NSI
on systems with international versions of System Software as well as U.S. System
Software.


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1) Interactions with other products:

• If you are using System 6.0.8 or earlier: This installer works on only System 7 or later Macintosh computers. The last version of the Network Software Installer to support System 6 was version 1.4.5.

• If you are using MacIPX: The new token ring driver is not compatible with MacIPX versions 1.1 and older. Contact Novell(r) Technical Support to obtain an update to newer MacIPX software which will work with this token ring driver.

• If you are using SoftWindows: SoftWindows versions 1.0 and 1.0.1 using SMB (NetBEUI) protocols over Token Ring are not 100% compatible with the AppleTalk version included on this disk. Contact Insignia Solutions regarding availability of an update to the SoftWindows software which will work with this driver.

• If you are using the Apple Internet Router: If this release of the Network Software Installer is being used in conjunction with an Apple Internet Router v.3.0 Installer, Apple Internet Router 3.0 must be installed first. This will ensure that the Router installation does not overwrite the newer AppleTalk software contained on NSI 1.5.

The LaserWriter Bridge cannot be used on a Macintosh that has any version of the Apple Internet Router software installed.

• If you are using the SNA•ps gateway: To use this release of the Network Software Installer with a SNA•ps gateway, a special custom install option is provided that installs a compatible token ring driver for the Token Ring 4/16 NB card. SNA•ps gateway is not currently supported on the TokenTalk NB or Token Ring NB/c cards. A future version of the SNA•ps gateway will not require the custom-installed driver.

• If you are using 3rd party ethernet cards: The drivers contained in the new driver files do not support 3rd party ethernet cards. A 3rd party card that has duplicated an Apple ethernet board will use the appropriate ethernet driver from the system file instead of the Apple driver in the extensions folder file. A system with a 3rd party ethernet card will continue to operate using the previously-installed driver after installing this version of the Network Software Installer. Such systems will get the benefit of all of the other updates installed by this Network Software Installer, including the ability to install and use the LaserWriter Bridge.

• If you are using a system with a 68040 microprocessor: Some programs may quit unexpectedly or cause the computer to freeze when you attempt to open them over the network. This problem, as well as others, is fixed by installing the System Update 3.0 available from Apple Software Updates libraries on commerical online services and the Internet. (For a current list of locations, search the Apple Tech Info Library by the phrase: Apple Software Updates.) This fix has also been incorporated into System 7.5.

2) What the Network Software Installer disk includes:

You can use this Network Software Installer to install the following networking products:

- LaserWriter Bridge version 2.0

- AppleTalk version 58.1.5

- Network Control Panel version 3.0.2

- EtherTalk version 2.5.7

- Apple Ethernet NB file version 1.0.1, containing drivers for all Apple NuBus ethernet cards

- Apple Ethernet LC file version 1.0.1, containing drivers for all Apple LC ethernet cards

- Apple Ethernet CS file version 1.0.1, containing drivers for all Apple Comm Slot ethernet cards

- Apple Built-In Ethernet version 1.0.1, containing drivers for all built-in ethernets

- TokenTalk version 2.5.7

- Token Ring Control Panel version 1.0.1

- Token Ring driver version 2.5.2 for the TokenTalk NB Card

- Token Ring driver version 1.0.2 for the Token Ring 4/16 NB and Token Ring NB/c Card

- A/ROSE 1.2.1, for use in some token ring configurations

Release notes:

The following section provides some more technical information on the updates provided by this installer. Many readers will not be interested in these details.

LaserWriter Bridge version 2.0
This control panel provides for activating the LocalTalk port while ethernet or token ring is in use. AppleTalk traffic can be passed from the ethernet or token ring to a LaserWriter connected to the LocalTalk port. The LaserWriter Bridge can only be used in conjunction with this version of the Network Software Installer and is not supported on System 6. The LaserWriter Bridge can only be installed from the custom installation area of the Network Software Installer. Please see the "LaserWriter Bridge User's Guide" document for more information on this program.

AppleTalk version 58.1.5
An address-mapping problem that could cause slowdowns in EtherTalk or TokenTalk networks was fixed.

The LAP Manager was fixed to avoid sending corrupted TEST and XID response

packets in certain heavy traffic situations.

A bug that passed a corrupted length indication to multi-node clients was fixed.

A VM problem that could cause hangs was fixed (this could also have occurred when Connectiix Ram Doubler was active).

A LocalTalk problem on Power Macintosh computers was fixed that prevented LaserWriter Bridge from working properly.

An additional LocalTalk problem on Power Macintosh computers was fixed that caused slow performance when both LocalTalk and GeoPort were in use.

Apple Built-In Ethernet driver file version 1.0.1
This driver file contains drivers for all Apple built-in ethernet implementations and is installed in the extensions folder.

The Macintosh Quadra 840AV and 660AV, Power Macintosh 6100, 7100 and 8100 andWorkgroup Server 6150, 8150 and 9150 ethernet drivers were updated to eliminate slowdowns, hangs, lost connections and data corruptions that were possible on some ethernets.

The Duo Dock II driver was updated to properly support locally-administered addresses, which are often used in DECnet environments.

A VM problem that could cause hangs was fixed (this could also have occurred when Ram Doubler was active).

The driver configuration now properly supports machines with Macintosh Processor Upgrade with PowerPC 601 Processor cards.

Changed DMA parameters for the Macintosh Quadra 610, 650, 700, 800, 900 and 950 and Macintosh Centris 610 and 650 and Workgroup Server 60 and 80 to avoid packet loss when sharing the bus with other DMA masters such as SCSI cards and codec cards.

Apple Ethernet NB driver file version 1.0.1
This driver file contains drivers for all Apple NuBus ethernet cards and is installed in the extensions folder.

A VM problem that could cause hangs was fixed (this could also have occurred when Ram Doubler was active).

Apple Ethernet LC driver file version 1.0.1
This driver file contains drivers for all Apple LC PDS ethernet cards and is installed in the extensions folder.

A VM problem that could cause hangs was fixed (this could also have occurred when Ram Doubler was active).

Apple Ethernet CS driver file version 1.0.1
This driver file contains drivers for all Apple Comm-Slot ethernet cards and is

installed in the extensions folder.

A VM problem that could cause hangs was fixed (this could also have occurred when Ram Doubler was active).

Apple Token Ring NB driver file version 1.0.2
This token ring driver file handles all Apple Token Ring cards for the NuBus -the TokenTalk NB, Token Ring 4/16 NB and Token Ring NB/c. The file is installed into the extensions folder. The new driver for the Token Ring 4/16 NB and Token Ring NB/c cards has significantly better performance and fewer problems in large source-routed environments than earlier drivers.

Version 1.0 had a problem when used with Token Ring 4/16 NB cards in 24-bit memory mode - attempting to create a resource file on a network volume would fail. Version 1.0.2 fixes this problem.

Version 1.0 uncovered a problem with the LLC implementation on NetWare servers using certain token ring cards. Version 1.0.2 provides a work-around for the problem.

This version fixes a hanging problem that could occur when a token ring cable was disconnected while the Macintosh was active on the token ring. This could have happened when either the Token Ring 4/16 NB card or the Token Ring NB/c card was in use.

This version now attempts to work-around a problem that occurs when a NetWare server using a version of APPLETLK.NLM prior to version 4.50C without a functioning ATTOKLLC.NLM installed. Lack of ATTOKLLC.NLM in such a NetWare server prevents the normal source route discovery process from working (as documented in the IBM® Token Ring Architecture Reference). NetWare servers using APPLETLK.NLM version 4.50C or later require the LLC8022.NLM for proper operation.

Article Change History:
22 Mar 1995 - Corrected wording of Duo Dock.

Support Information Services

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