

Bus Number

Use the Bus Number parameter only when the network adapter is installed in multi-bus PC's. If the PC only has a single bus, set this parameter to 0 (zero). This is the usual situation.

Network address

Use the Network address field if you do not want to use the network adapter's burned in Ethernet address. The value entered must be a locally administered address, i.e. of the format X*XXXXXXXXXX. Where X is any hexadecimal digit, and * is either 2,6,A or E.

If the NDIS 3 driver encounters an invalid network address, the invalid network address error message is posted.

The value entered is verified by the setup program when you click "Ok" in the setup dialog box.

Contents for Network Installation Help

The Microsoft® Windows NT™ operating system uses NDIS 3 network drivers.

This help file explain the configuration parameters for the network driver you are installing or configuring. You must be logged on as a member of the Administrators group to install and configure network adapters.

Use this help file as a guide if you experience any problems with your network adapter. It contains a list of all NDIS 3 driver error messages and proposed actions.

This help file is also accessible as a separate help file OCE4XMP.HLP.

Network Driver Interface Specification

5000 *driver* : Has encountered a conflict in resources and could not load.

The resources needed for your network adapter conflicts with another adapter.

Action: Check the resources used by the network adapter(s) to ensure that no conflicts exists.

5001 *driver* : Could not allocate resources necessary for operation.

The NDIS 3 driver failed to load, because it tried to allocate too many resources.

Action: Decrease the number of receive and/or transmit buffers and retry.

5002 *driver* : Has determined that the adapter is not functioning properly.

The adapter could not be found or is not working properly.

Action: Make sure the PCI Bios has assigned valid, i.e. non conflicting resources to the adapter. Try running diagnostics on the adapter.

5003 *driver* : Could not find an adapter.

The adapter could not be found by the NDIS 3 driver.

Action: Try running diagnostics on the adapter.

5004 *driver* : Could not connect to the interrupt number supplied.

The interrupt is already used by another device.

Action: Change the adapter interrupt number if possible and retry. Try running diagnostics on the adapter.

5005 *driver* : Has encountered an internal error and has failed.

An internal error has been discovered.

Action: Restart your system. If the error persists, contact your place of purchase for support.

5006 *driver* : The version number is incorrect for this driver.

The NDIS 3 driver version is incorrect.

Action: Restart your system. If the error persists, contact your place of purchase for support.

5007 *driver* : Timed out during an operation.

A time-out error occurred.

Action: Restart your system. If the error persists, contact your place of purchase for support.

5008 *driver* : Has encountered an invalid network address.

An invalid network address was specified.

Action: Change the locally administered network address and restart your system. If the error persists, try clearing the network address in the setup dialog. The NDIS 3 driver will then use the burned-in address when opening.

5009 *driver* : Does not support the configuration supplied.

An invalid configuration entry was discovered.

Action: Use the network control panel to set proper adapter parameters. Do not try to manually change any parameters in the registry.

5010 *driver* : The adapter has returned an invalid value to the driver.

An internal error has occurred.

Action: Restart your system. If the error persists, contact your place of purchase for support.

5011 *driver* : A required parameter is missing from the registry.

A parameter necessary for operation has been omitted in the registry.

Action: Use the network control panel to set proper parameters.

5012 *driver* : The IO Base Address supplied does not match the jumpers on the adapter.

The adapter could not be found by the NDIS 3 driver.

Action: This error is not applicable for PCI devices.

5014 *driver* : The adapter is disabled. The driver cannot open the adapter.

The adapter is disabled.

Action: Make sure the start-up parameter for the NDIS 3 driver is set to "Manual". Use the "Devices" applet in the control panel to change the settings.

5015 *driver* : There is an I/O port conflict.

The ports used by the NDIS 3 driver are already in use by another device.

Action: Change the I/O Base address for the adapter using the PCI Bios configuration utility if possible.

5016 *driver* : There is an I/O port or DMA channel conflict.

The ports or DMA channel used by the NDIS 3 driver are already in use by another device.

Action: Change the I/O port used by the adapter to ensure that there is no resource conflicts.

5018 *driver* : There is a interrupt conflict at interrupt number xx.

The adapter tried to use an interrupt currently in use.

Action: Change the interrupt selection on the adapter and retry.

5019 *driver* : There is a resource conflict at DMA channel xx.
The adapter tried to use a DMA channel currently in use.
Action: Change the DMA channel selection on the adapter and retry.

Contacting support

If you have any problems using the OC-2325/OC-218X Ethernet PCI adapter and related software in the Microsoft Windows NT/Microsoft Windows 95 operating systems, you should:

Windows NT:

write down the *Event ID*, *Source*, *Description* and *Data* fields in the **Event Detail** window.

Windows 95:

write down the contents of the NDISLOG.TXT file located in your Windows directory.

These informations will help the support team to locate the error.

Error descriptions

If you have any problems with the network, you should check if any error messages or warnings are posted by the NDIS 3 driver by using the Event Viewer in the Administrative Tools group.

Ensure that the adapter is properly inserted in the slot and that a cable is properly connected to the adapter. Notice that errors regarding I/O Base and Interrupt conflicts are included here. If such an error occurs, the Bios has been unable to assign non conflicting resources to the adapter. Use the Bios system configuration utility to change the settings for the Ethernet PCI adapter if possible.

All error messages and/or warnings posted by the NDIS 3 driver have the Source field set to "OCE4XMP".

System error messages, related to the NDIS 3 driver, can occur with different source names, i.e. "Service Control Manager".

The messages are enumerated by the Event field and are described below in Event number order. In the event viewer display the message description by highlighting the message and pressing the enter key. Error messages from 5000 are predefined error codes specific to the Windows NT operating system. You can retrieve additional information on these messages in your documentation.

5000 : driver : Has encountered a conflict in resources and could not load

5001 : driver : Could not allocate resources necessary for the operation

5002 : driver : Has determined that the adapter is not functioning properly

5003 : driver : Could not find an adapter

5004 : driver : Could not connect to the interrupt number supplied

5005 : driver : Has encountered an internal error and has failed

5006 : driver : The version number is incorrect for this driver

5007 : driver : Timed out during an operation

5008 : driver : Has encountered an invalid network address

5009 : driver : Does not support the configuration supplied

5010 : driver : The adapter has returned an invalid value to the driver

5011 : driver : A required parameter is missing from the registry

5012 : driver : The IO Base Address supplied does not match the jumpers on the adapter

5014 : driver : The adapter is disabled. The driver cannot open the adapter

5015 : driver : There is an I/O port conflict

5016 : driver : There is an I/O port or DMA channel conflict

5018 : driver : There is a interrupt conflict at interrupt number xx

5019 : driver : There is a resource conflict at DMA channel xx

If you have any problems, write down the *Event ID*, *Source*, *Description* and *Data* fields in the **Event Detail** window. This information helps the support team to locate the error.

Duplex

This parameter is used to force the duplex mode on the PCI Ethernet adapter.

The adapter will attempt to auto-detect the SPEED, unless this parameter also has been specified.

Parameter descriptions

The following parameters are applicable for the NDIS 3 driver:

Transmit Buffers

Receive Buffers

Speed

Duplex

Bus Number

Network address

All parameters have a default value suitable in most situations. However, if you need to install several adapters in your system, or use locally-administered addresses, you may need to change some of them.

Receive Buffers

This parameter specifies the number of allocated receive buffers used by the driver. Increase this number to improve performance.

Speed

This parameter is used to force the speed on the OC-2325 PCI Ethernet adapter.

The adapter will attempt to auto-detect the DUPLEX mode, unless this parameter has also been specified.

Transmit Buffers

This parameter specifies the number of allocated transmit buffers used by the driver. Increase this number to improve performance.

