



ODI Specification Supplement: Standard MLID Message Definitions

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CHSM, C language Hardware Specific Module, CMSM, C language Media Support Module, CTSM, C language Topology Specific Module, Internetwork Packet Exchange, ODI, Open Data-Link Interface, LSL, Link Support Layer, MLID, Multiple Link Interface Driver, MLI, Multiple Link Interface, MPI, Multiple Protocol Interface, MSM, Media Support Module, TSM, Topology Support Module, HSM, Hardware Support Module, RX-Net, NE1000, NE2000, NE/2, NE2-32, and NTR2000 are trademarks of Novell, Inc.

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Overview

This supplement lists message numbers and their associated text strings that have been standardized for use in Novell-developed software. The standardization of message numbers and strings in MLIDs simplifies software maintenance and sets the stage for foreign language enabling. We recommend that where the standard message strings apply to the HSM, developers define and use the same message number and string.

In addition to the list of messages useful for the MLID and the HSM, this supplement contains lists of messages for the MSM, LSL, and operating system.

The messages contained in this supplement are designed for the MSM to append pertinent information to. The messages are actually displayed in two different formats: one for initialization time and one for run-time. Examples of these formats follow.

Example of an MLID message during initialization time:

NE2000-NW-051:Board RAM failed the memory test.

Example of an MLID message during run time:

WARNING:TOKEN-NW-218-Adapter 1-Board 3: Cable is disconnected at the primary board. Board is resetting.

FATAL:TOKEN-NW-210-Adapter 1-Board 1: The adapter check caused the primary adapter to deregister.

These lists are for reference only, as there is no means for accessing any of these messages. If a message applies to your MLID, you will still need to define the message number and string within your code.



Important

This document applies to MLIDs that are written in the Assembly and C languages. Therefore, please note that the all references to the MSM, TSM and HSM also apply to the CMSM, CTSM and CHSM for those MLIDs that are written in C language. ▲

Message Implementation

Messages are implemented differently in Assembly language than than they are in the C language. The following examples illustrate how you should use the messages.

Message Implementation Example

Suppose you wanted to include message 50 “The board cannot be found.” in your code, you would do it in this way for Assembly:

db 50, 00, 'The board cannot be read.', 10, 13, 0

In the C language, you would do the following:

"050: The board cannot be found."

Note that there must be only one space between the message number and the message.

MLID and HSM Messages

General Driver Messages

- 050: The board cannot be found.
- 051: Board RAM failed the memory test.
- 052: The board cannot be found at the slot designated in NET.CFG.
- 053: The specified slot contains the correct board, but board is not enabled.
- 054: The board did not respond to the initialization command.
- 055: The MLID could not add a protocol ID.
- 056: This interrupt is already used and cannot be shared.
- 057: Memory for the virtual boards could not be allocated.
- 058: The board does not respond.
- 059: The board did not reset. The MLID has been de-registered.

- 060: The board did not reset.
- 061: The NET.CFG file contains an invalid IRQ selection.
- 062: The NET.CFG file contains invalid port selection.
- 063: The NET.CFG file contains an invalid shared RAM segment entry.
- 064: The NET.CFG file contains an invalid DMA selection.
- 065: Board cannot be found at slot/IO port.
(Please check SLOT and PORT values in the NET.CFG file.)
- 066: The cable might be disconnected on the board.
- 067: The group bit in the node address override was cleared.
- 068: The local bit in the node address override was set.
- 069: The node address entered matches a multicast.

- 070: The board has failed.
- 071: The matching virtual adapter cannot be found.
- 072: A resource tag is unavailable.
- 073: Unable to allocate memory.
- 074: The hardware interrupt cannot be set.
- 075: The MLID cannot be registered with the LSL.
- 076: The polling procedure cannot be added.
- 077: The event notification routine cannot be registered.
- 078: The firmware file cannot be read.
- 079: The MLID did not initialize CMSMTXFreeCount.

- 080: The board could not be configured.
- 081: The board will not accept the multicast address.
- 082: The node address cannot be set.
- 083: The specified node address override is invalid.
- 084: Unable to allocate memory below the 16 Megabyte boundary.
- 085: The .DEF file contains an invalid version number.
- 086: The driver parameter block is too small.
- 087: The media parameter block is too small.
- 088: Node address override is not supported.
- 089: The board has failed because the node address could not be set.

- 090: Board's POS registers contain an invalid configuration.
- 091: The hardware configuration conflicts.
- 092: Cannot schedule AES without an CHSM routine.
- 093: Cannot schedule interrupt time call back without an CHSM routine.

- 094: Cannot set hardware interrupt without an CHSM routine.
- 095: Cannot add polling without an CHSM routine.

Ethernet Driver Messages

Generic

- 200: The board's DMA did not complete the write.

NE2_32

- 221: The board's command port did not respond.
- 222: RAM address invalid. RAM address must be C0000h or 0000h.

NE2000

- 223: The board must be placed in a 16-bit slot.
- 224: This board is configured as an NE1000.

NE2100

- 242: Only one <name> board can be present in the machine.

IBMBME2

- 225: The board's processor has failed.
- 226: The board's data bus has failed.
- 227: The board has failed the loopback test.
- 228: The board will not accept the Clear Alloc command.
- 229: The board will not accept the Pause Adapter command.
- 230: The board will not accept the Buffer Size command.
- 231: The board will not accept the Enable Receive command.
- 232: The board will not accept the Interrupt Indicator command.
- 233: The board contains the incorrect firmware.

NE3200

- 234: The board cannot read the configuration.
- 235: No interrupt was selected. The board must be reconfigured.
- 236: No RCBs are available for the board to initialize.
- 237: The firmware cannot be initialized.
- 238: The firmware cannot be started.
- 239: The board did not fill out the node address.
- 240: The board's address PROM has the wrong node address.
- 241: The board's ROM has checksum errors.

Token-Ring Driver Messages

Token386

- 200: Inserting into the ring... Please wait.
- 201: DIR.OPEN.ADAPTER error code = xx. Trying again.
- 202: Board failed diagnostics. BRING_UP_ERROR code = xx.
- 203: Board diagnostics failed to complete.
- 204: The shared RAM is on an incorrect boundary.
- 205: Adapter did not reset during initialization.
- 206: An interrupt failed to occur during initialization.
- 207: Initialization error = xx – <string>
- 208: The MAX FRAME SIZE is too big for this adapter in 8KB mode.
(Please check the shared RAM size switches.)

- 209: The MAX FRAME SIZE is too big for this adapter in 32KB mode.
(Please check the shared RAM size switches.)
- 210: The adapter check caused the adapter to deregister.
Error Status = xx.
- 211: The adapter is closed and the MLID is deregistered.
- 212: Post Process Open Board failed. The board deregistered.
- 213: The adapter did not reset.
- 214: Cable is disconnected at the board. The board is resetting.
Ring status = xx.
- 215: Cable is disconnected at the MAU. The board is resetting.
Ring status = xx.
- 216: The Auto Removal process reset the adapter.
- 217: The Remove MAC Frame process shut down the adapter.
- 218: The ROM and shared RAM address overlap.
(Please check the ROM switch settings and
RAM address [MEM #2] in the NET.CFG file.)
- 219: Either the board was not found or the bus is unrecognizable.
- 220: The MAX FRAME SIZE in the NET.CFG is too large (Max =
17960).
- 221: The MAX FRAME SIZE in the NET.CFG is too small (Min = 632).
- 222: The specified MAX FRAME SIZE in NET.CFG is not a multiple of
8.
- 223: The MAX FRAME SIZE in the NET.CFG is too big for this
adapter.
The maximum value at this speed for this adapter is xxxx.
- 224: The adapter is beaconing. Ring status = xx.
- 225: The adapter's microcode is not loaded.
- 226: A duplicate station was detected during the insertion process.
- 227: Remove MAC Frame received during the insertion process.
- 228: The ring is beaconing during the insertion process.
- 229: The adapter alert condition has been corrected.
- 230: The adapter cable was disconnected during the insertion
process.

TokenIBM

- 200: Inserting into the ring... Please wait.
- 201: DIR.OPEN.ADAPTER error code = xx. Trying again.
- 202: Board failed diagnostics. BRING_UP_ERROR code = xx.
- 203: Board diagnostics failed to complete.
- 204: The shared RAM is on an incorrect boundary.
- 205: Adapter did not reset during initialization.
- 206: An interrupt failed to occur during initialization.
- 207: Initialization error = xx – <string>
- 208: The MAX FRAME SIZE is too big for this adapter in 8KB mode.
(Please check the shared RAM size switches.)
- 209: The MAX FRAME SIZE is too big for this adapter in 32KB mode.
(Please check the shared RAM size switches.)
- 210: The adapter check caused the primary adapter to deregister.
- 211: The adapter check caused the alternate adapter to deregister.
- 212: The primary adapter is closed and the MLID is deregistered.
- 213: The alternate adapter is closed and the MLID is deregistered.
- 214: Post Process Open Board failed. Primary board deregistered.
- 215: Post Process Open Board failed. Alternate board is deregistered.

- 216: The primary adapter did not reset.
217: The alternate adapter did not reset.
218: Cable is disconnected at the primary board. Board is resetting.
219: Cable is disconnected at the alternate board. Board is resetting.
- 220: Cable is disconnected at the MAU. Primary board is resetting.
221: Cable is disconnected at the MAU. Alternate board is resetting.
222: The Auto Removal process reset the primary adapter.
223: The Auto Removal process reset the alternate adapter.
224: The Remove MAC Frame process shut down the primary adapter.
225: The Remove MAC Frame process shut down the alternate adapter.
226: The ROM and shared RAM address overlap.
(Please check the ROM switch settings and
RAM address [MEM #2] in the NET.CFG file.)
227: Either the board was not found or the bus is unrecognizable.
228: The MAX FRAME SIZE in the NET.CFG is too large (Max =
17960).
229: The MAX FRAME SIZE in the NET.CFG is too small (Min = 632).
- 230: The specified MAX FRAME SIZE in NET.CFG is not a multiple of
8.
231: The MAX FRAME SIZE in the NET.CFG is too big for this
adapter.
The maximum value at this speed for this adapter is xxxx.
232: Buffer memory failure.
233: The adapter detected a duplicate station during the insertion
process. Error code = %x.
234: The adapter received a Remove MAC Frame during the insertion
process. Error code = %x.
235: The adapter cable was disconnected during the insertion
process.
Error code = %x.
236: The ring was beaconing during the insertion process. Error code
= %x.
237: The adapter is beaconing. Ring status = %x.
238: The adapter check caused the adapter to deregister. Error code
= %x.
239: Cable is disconnected at the board. Board is resetting.
Ring status = %x.
- 240: Cable is disconnected at the MAU. Board is resetting. Ring
status = %x.
241: The Auto Removal process reset the adapter. Ring status = %x.
242: The Remove MAC Frame process shut down the adapter. Ring
status = %x.2
243: The adapter alert condition was corrected.
244: The adapter's microcode is not loaded.

TSM Messages

- 125: The CTSM's version number does not match the version of CMSM.NLM.
- 126: The group bit in the node address override was cleared.
- 127: The local bit in the node address override was set.

MSM Messages

- 001: The LSL is not loaded.
- 002: The LSL has no room for a board using Frame <type>.
- 003: Could not find <name> MLID to unload.
- 004: A TSR is loaded above the <name> MLID.
- 005: <name> MLID could not unload; the operation is aborted.
- 006: The adapter did not initialize. <name> did not load.
- 007: You need another MLID Section Heading in the NET.CFG file in order to load the MLID again.
- 008: A NET.CFG file is required to load the MLID again.
- 009: The NET.CFG entry has been ignored.

- 010: The <name> MLID has been successfully removed.
- 011: The MLID does not support Frame <type>.
The protocol keyword has been ignored.
- 012: The protocol keyword must have a frame type. Entry ignored.
- 013: The MLID did not register the <name> protocol,
frame=<type>, PID=<number>.
- 014: This version of the LSL is not supported.
- 015: The frame type is already active for frame <type>.
- 016: The node address was incorrectly specified in the NET.CFG.
- 017: An invalid keyword was specified in NET.CFG on line xxx.
- 018: The frame type specified in the NET.CFG is not supported.
- 019: An invalid <name> node address is specified in NET.CFG.
The MLID modified the incorrect address bits.

- 020: This version of the statistics table is not supported.
- 021: Could not add MLID Protocol ID.
- 022: Could not allocate memory. Virtual board did not load.
- 023: You can only load MSM311 on a NetWare 386 v3.11 Server.
- 024: The CMSM is unable to parse a required custom keyword.

LSL Messages

- 200: The LSL is already loaded.
- 201: The multiplex interrupt 2Fh has no free slots.
- 202: An invalid parameter was specified on the command line.
- 203: A TSR has been loaded above the LSL.
- 204: You have loaded different LSL or hooked different LSL interrupt.
- 205: Board <name > is still registered with the LSL.
- 206: Default protocol stack, board <name >, still registered with LSL.
- 207: Prescan protocol stack, board <name >, still registered with LSL.
- 208: Protocol stack <name > is still registered with the LSL.

LANSUP Messages

- 200: The IBM LAN Support Program has not been loaded.
- 201: An error occurred during initialization.
- 202: Adapter failed to open.
- 203: Another application is using Direct Station 0.
- 204: Work area exceeded. Reduce number of SAPS and/or Link Stations.
- 205: The configured DHB BUFFER LENGTH is too small (Min=626 bytes).
(Please check IBM LAN Support Program parameters.)
- 206: DIR.MODIFY.OPEN.PARMS returned an error.
- 207: Inserting into the ring... Please wait.
- 208: ETHERAND adapter is initializing... Please wait.
- 209: PC Network adapter is initializing... Please wait.
- 210: PC Network/A adapter is initializing... Please wait.

- 227: Either the board was not found or the bus is unrecognizable.
- 228: The MAX FRAME SIZE in the NET.CFG is too large (Max = 17960).
- 229: The MAX FRAME SIZE in the NET.CFG is too small (Min = 632).
- 230: The specified MAX FRAME SIZE in NET.CFG is not a multiple of 8.
- 231: The MAX FRAME SIZE in the NET.CFG is too big for this adapter.
The maximum value at this speed for this adapter is xxxx.
- 232: The adapter was configured for a MAX FRAME SIZE of xxxx.
The LANSUP MLID will use this value.

ODINSUP Messages

- 200: The MLID failed to bind to the protocol.
- 201: The MLID could not obtain the Protocol Manager Dispatch Point.
- 202: The MLID could not obtain the Protocol Manager Information.
- 203: The MLID failed to register with the Protocol Manager.
- 204: The NDIS MAC MLID name used for binding is missing or invalid.
- 205: The MLID does not support enough frame types.

EXOS Messages

- 200: The 80186 chip failed to reset.
- 202: The 82586 chip failed to reset.
- 202: The 82586 chip failed self-diagnostics.
- 203: The 82586 chip failed to configure.
- 204: The 82586 chip could not set the node address.
- 205: The 82586 chip could not start the receive unit.

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