



H210IPZ NetEx/IP[®] and TNP210
for IBM z/OS Operating Systems

Release 7.4

Messages and Abend Codes

Revision Record

Revision	Description
01 (05/97)	Manual updated to correspond to release 3.2.0. This release of H210 NetEx replaces all FORTRAN and most PASCAL utility programs with “C” utility programs. NetEx no longer supports MVS/XA (Version2) or MVS/SP (Version1).
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Preface

This manual describes messages and abend codes for the H210IPZ NETwork EXecutive (NetEx®) software for the IBM z/OS operating systems. NetEx is developed by Network Executive Software.

Readers should be familiar with general concepts related to Network Executive Software's software and the associated vendor's hardware. Readers are not expected to be familiar with NetEx before using this manual. However, NetEx requires an understanding of programming in the supported languages and using the host operating system.

“NetEx/IP Display Messages” describes NetEx error messages.

“NRBSTAT Error Codes” describes NRBSTAT error codes issued by NetEx.

“Configuration Manager Messages” describes messages issued from the Configuration Manager parser.

“NXMCFG Error Messages” describes messages issued from the NXMCFG module.

“ABEND Codes” describes ABEND codes issued by H210IPZ NetEx.

Reference Material

The following manuals contain related information.

Number	Title and Description
MAN-INS-H210IPZ	<i>H210IPZ NetEx/IP® for IBM z/OS Operating Systems Installation Reference Manual</i>
MAN-OPR-H210IPZ	<i>H210IPZ NetEx/IP® for IBM z/OS Operating Systems Operator Reference Manual</i>
MAN-API-H210IPZ	<i>H210IPZ NetEx/IP® for IBM z/OS Operating Systems Programming Reference Manual</i>
460194	<i>H211 Bulk File Transfer (BFX™) Utility for IBM MVS Software Reference Manual</i>
460201	<i>H212R Print File Transfer (PFX™) Receiver Utility for IBM MVS Systems Installation and User Guide</i>
460345	<i>H212T Print File Transfer (PFX™) Utility for IBM MVS Systems Software Reference Manual</i>
MAN-REF-EFT213	<i>eFT213 for IBM z/OS User Guide</i>
460757	<i>"C" Configuration Manager and NetEx Alternate Path Retry (APR) User Guide</i>
460580	<i>NetEx Application Programmer's Interface Software Reference Manual</i>

Notice to the Reader

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International Business Machines **z/OS, OS/390, IBM, OSA**

These references are made for informational purposes only.

The diagnostic tools and programs described in this manual are **not** part of the products described.

Notice to the Customer

The installation information supplied in this document is intended for use by experienced System Programmers.

Document Conventions

The following notational conventions are used in this document.

Format	Description
displayed information	Information displayed on a CRT (or printed) is shown in <i>this font</i> .
user entry	<i>This font</i> is used to indicate the information to be entered by the user.
UPPERCASE	The exact form of a keyword that is not case-sensitive or is issued in uppercase.
MIXedcase	The exact form of a keyword that is not case-sensitive or is issued in uppercase, with the minimum spelling shown in uppercase.
bold	The exact form of a keyword that is case-sensitive and all or part of it must be issued in lowercase.
lowercase	A user-supplied name or string.
value	Underlined parameters or options are defaults.
<label>	The label of a key appearing on a keyboard. If "label" is in uppercase, it matches the label on the key (for example: <ENTER>). If "label" is in lowercase, it describes the label on the key (for example: <up-arrow>).
<key1><key2>	Two keys to be pressed simultaneously.
No delimiter	Required keyword/parameter.

Glossary

asynchronous: A class of data transmission service whereby all requests for service contend for a pool of dynamically allocated ring bandwidth and response time.

ASCII: Acronym for American National Standard Code for Information Interchange.

buffer: A contiguous block of memory allocated for temporary storage of information in performing I/O operations. Data is saved in a predetermined format. Data may be written into or read from the buffers.

Configuration Manager: A utility that parses a text NCT file into a PAM file.

header: A collection of control information transmitted at the beginning of a message, segment, datagram, packet, or block of data.

host: A data processing system that is connected to the network and with which devices on the network communicate. In the context of Internet Protocol (IP), a host is any addressable node on the network; an IP router has more than one host address.

Internet Protocol (IP): A protocol suite operating within the Internet as defined by the *Requests For Comment* (RFC). This may also refer to the network layer (level 3) of this protocol stack (the layer concerned with routing datagrams from network to network).

ISO: Acronym for International Standards Organization.

link: (1) A joining of any kind of networks. (2) The communications facility used to interconnect two nodes on a network.

Network Configuration Table (NCT): An internal data structure that is used by the NetEx configuration manager program to store all the information describing the network.

NETwork EXECutive (NetEx): A family of software designed to enable two or more application programs on heterogeneous host systems to communicate. NetEx is tailored to each supported operating system, but can communicate with any other supported NetEx, regardless of operating system.

NetEx resides on the hostNetEx is a registered trademark of Network Executive Software.

Open Systems Interconnection (OSI): A seven-layer protocol stack defining a model for communications among components (computers, devices, people, and et cetera) of a distributed network. OSI was defined by the ISO.

path: A route that can reach a specific host or group of devices.

TCP/IP: An acronym for Transmission Control Protocol/Internet Protocol. These communication protocols provide the mechanism for inter-network communications, especially on the Internet. The protocols are hardware-independent. They are described and updated through *Requests For Comment* (RFC). IP corresponds to the OSI network layer 3, TCP to layers 4 and 5.

Contents

Revision Record	i
Preface.....	iii
Reference Material.....	iv
Notice to the Reader.....	v
Corporation Trademarks and Products.....	v
Notice to the Customer	v
Document Conventions.....	vi
Glossary	vii
Contents	ix
Figures.....	xi
Tables.....	xi
NetEx/IP Display Messages.....	13
General.....	13
Operator Console	13
Message Format	13
Related Topics.....	14
Messages	15
Print Function Messages	85
NRBSTAT Error Codes	89
General.....	89
NRBSTAT and NRBIND	89
NRBSTAT	89
NRBIND.....	89
NRBSTAT Error Code Format	90
General and User Interface Errors	92
Special NRBSTAT Errors for H210 NetEx.....	94
Driver Errors	94
Transport Errors.....	96
Session Errors	98
Network Errors	102
Configuration Manager Messages.....	105
General.....	105
First Pass Configuration Messages	105
Second Pass Configuration Messages.....	109
MAKEPAM Processing Messages	113
NXMCFG Error Messages.....	115
General.....	115
NXMCFG Error Messages.....	115

ABEND Codes.....	117
General	117
ABEND Codes	118
Index	127

Figures

Figure 1. State Codes	36
-----------------------------	----

Tables

Table 1. Message Type Indicators	13
Table 2. NXM mmm 015, E, 15 Reason Codes.....	18
Table 3. NXM mmm 026, E, 15 Reason Codes.....	20
Table 4. NXM mmm 084, E, 12 Reason Codes.....	23
Table 5. NXM mmm 120, I, 06 Reason Codes.....	29
Table 6. NXM mmm 260, I, 06 Reason Codes.....	42
Table 7. NXM mmm 342, E, 12 Reason Codes.....	50
Table 8. NXM mmm 343, E, 12 Reason Codes.....	51
Table 9. NXM mmm 660, I, 06 Reason Codes.....	68
Table 10. ABEND Codes.....	118

NetEx/IP Display Messages

General

This section describes the basic format of NetEx messages and provides a complete description for each message.

- Operator Console
- Message Format
- Messages
- Print Function Messages

Operator Console

NetEx error messages appear on the operator's console.

Message Format

The messages described in "Messages" on page 15 and "Print Function Messages" on page 85 use the following format:

```
NXM mmm nnn, s, x, 'YYYYYYYYYYYYYYYY' RC zzzz
```

NXM

Indicates the error code was sent by NetEx.

mmm

Specifies the NetEx module identifier.

nnn

Identifies a unique NetEx error code. The NetEx messages are listed in numerical order.

s

Identifies the message severity. The following codes are used:

Indicator	Message Type	Description
A	action	Operator must perform a specific action.
D	disaster	Operator must choose an alternative action.
E	error	Operator must perform an action when time allows.
F	fatal	fatal error message
I	information	Requires no operator action at this time.
R	response	Requires operator response.

Table 1. Message Type Indicators		
Indicator	Message Type	Description
S	severe	Indicates a severe error message.
W	warning	Processing stops until appropriate action is performed.

x

Identifies the message severity level (0-15). For example, the level controlled by the MSGLVL parameter when messages are displayed on the console. See “MSGLVL” or “SET MSGLVL” in the *H210IPZ NetEx/IP for IBM z/OS Operating Systems Software Reference Manual* for more information on this parameter.

‘yyyyyyyyyyyyyyyyyy’

Identifies the message text.

RC zzzz

Identifies optional NRBSTAT error code.

Related Topics

See the following sections in this manual for more information:

- “Messages” on page 15
- “Print Function Messages” on page 85

See the following topics in the *H210IPZ NetEx/IP for IBM z/OS Operating Systems Software Reference Manual* for more information:

- “MSGLVL”
- “SET MSGLVL”

Messages

NetEx generates the following error messages.

NXM mmm 000,I,15, 'NETEX aaaaaaa Release bbbbb Level cccc NESi PART NUMBER ddddddd'

NXM mmm 001,I,15, 'NETEX Initialization eeeeeeee on host fffffff at gggggggg on hhhhhhhh'

NXM mmm 005,F,15, 'No configuration defined for local host iiiiiii'

Explanation: The local host does not have any ROUTE macro specifications in the ROOTGEN module and the configuration file was not used, or an error occurred during load of NCT.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the operating system type (for example z/OS).

bbbbbb

Specifies the NetEx/IP H210IPZ Release (for example 7.0).

cccc

Specifies the NetEx Program Service Level.

dddddd-dd

Specifies the NetEx/IP H210IPZ program part number (for example H210IP)

eeeeeee

Specifies the status of the initialization.

ffffff

Specifies the host name.

gggggggg

Specifies the time.

hhhhhhhh

Specifies the date.

iiiiiii

Specifies the local host name.

Operator Response: None.

Programmer Response: Add ROUTE macro(s) in the NXMROO module for the local host or use the Configuration Manager. See the Appendix A. "Using the NXMROO Module" in the *H210IPZ NetEx/IP for IBM z/OS Operating Systems Software Reference Manual* or the "C" *Configuration Manager and NetEx Alternate Path Retry (APR) User Guide* for more information.

NXM mmm 009,W, NETEX WAITED aaaaaaa SECONDS. CAUSE - NOT DISPATCHED.

Explanation: The NetEx dispatcher has not processed any requests for aaaaaaa seconds. Even if NetEx has no externally-generated work (user requests, I/O completions and operator commands), the dispatcher must ensure that timed internal processes are executed. If this message appears, it indicates that MVS is not dispatching NetEx in a timely manner. This can be due to system work load, or often when a critical system component is generating an SVC dump.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the number of seconds.

System Action: IF no SVC dumps are in progress immediately preceding the appearance of this message, then system priorities are the cause of NetEx not being dispatched. Therefore, dispatching priority must be increased or the NetEx performance group changed.

NXM mmm 010,I,'User aaaaaaaa (bbbbbb) queued on ccccccc'

Explanation: The specified NITUSER and (ADDRESS) was added to the specified memory queue.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the address.

cccccc

Specifies the memory queue.

Operator Response: None.

Programmer Response: This is the "MEMORY CONTENTION DETECTED" message. This message indicates that a particular subpool of memory was completely allocated. When the contention is relieved, 011 should be displayed. If the number of messages is excessive, more memory should be allocated for the subpool.

NXM mmm 011,I,8,'User aaaaaaaa (bbbbbb) removed from ccccccc'

Explanation: The specified NITUSER and (ADDRESS) were removed from the specified memory queue.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the address.

cccccc

Specifies the memory queue.

Operator Response: None.

Programmer Response: This is the "MEMORY CONTENTION RELIEVED" message and should follow message 010. If the number of the messages is excessive, more memory should be allocated for the subpool.

NXM mmm 012,I,8,'User aaaaaaaa (bbbbbb) extended subpool ccccccc'

Explanation: The specified NITUSER and (ADDRESS) extended the specified memory queue.

mmm
Specifies the NetEx module identifier.

aaaaaaaa
Specifies the NetEx user identifier.

bbbbbb
Specifies the address.

cccccc
Specifies the memory queue.

Operator Response: None.

Programmer Response: This message indicates that more memory should probably be allocated for the specified subpool when NetEx is brought up again.

NXM mmm 013,I,04, 'Queued for memory on sssssss tttt times'

Explanation: This message indicates there is memory allocation contention for the indicated memory queue.

mmm
Specifies the NetEx module identifier.

sssssss
Specifies the memory subpool on which the contention is occurring.

tttt
Specifies the number of times in which allocation contention has occurred since the last time this message was issued.

Operator Response: None.

Programmer Response: This is the 'MEMORY CONTENTION DETECTED' message and indicates that a particular subpool of memory is completely exhausted. This warning message indicates that the identified memory subpool should be increased at initialization time through modification of the corresponding PAGExxx initialization statement before NetEx is started again.

NXM mmm 015,E,15, 'Network adapter verification failure: Unit aa, Reason bb'

Explanation: The specified adapter failed the network adapter verification test.

Operator Response: Examine the reason code and ensure that the adapter is configured properly. A breakdown of reasons is shown below.

mmm
Specifies the NetEx module identifier.

aa
Specifies the host adapter's two digit hexadecimal unit address.

bb
Specifies the reason code. Table 2 lists and defines all reason codes.

Table 2. NXM mmm 015, E, 15 Reason Codes	
Reason Code	Description
1	CUB not found for specified unit #
2	Sense Adapter' failed
3	A222 level < minimum (40) (Sense Adapter)
4	A220 level < minimum (13) (Sense Adapter)
5	Adapter model <> A220, A222, A223, or N220 (Sense Adapter)
6	There are no free output subchannels to issue sense commands
7	Adapter unit # is incorrect (Sense Adapter)
8	A supposedly invalid adapter command worked
9	Trunks mask from sense statistics <> trunk mask from PAM
11	'Sense Statistics' failed
12	A222 level < minimum (40) (Sense Statistics)
13	A220 level < minimum (13) (Sense Statistics)
14	Adapter model <> A222, A220, A223, B222, or N220 (Sense Statistics)
15	B222 level < minimum (10) (Sense Statistics)
16	B222 Adapter unit # is incorrect (Sense Stats)
17	A220, A222 or A223 Adapt unit # incorrect (Sense Statistics)
18	A223 level < minimum (10) (Sense Stats)
19	A223 level < minimum (10) (Sense Adapter)
21	'010101...' pattern failed
22	'000000...' pattern failed
23	'FFFFFF...' pattern failed
24	'000100020003...' pattern failed
25	'Set Test, etc.' failed, IORRC <> IOFAIL
26	'Set Test, etc.' failed, not a unit check
27	'Set Test, etc.' failed, not a command reject
30	N220 'Sense ID' did not return 'IF220' or 'RHI2'
31	N220 'Sense GNA' failed
32	N220 'Sense GNA' unit # does not match unit # from PAM

Programmer Response: None.

NXM mmm 016,W,6, 'Adapter unable to enter test mode: Unit aa'

Explanation: The specified adapter could not enter test mode for the verification procedure.

mmm
Specifies the NetEx module identifier.

aa
Specifies the host adapter's two digit hexadecimal unit address.

Operator Response: The adapter is being shared or the adapter cannot read incoming message(s). This is normal, otherwise, there is a problem with the adapter.

Programmer Response: None.

NXM mmm 017,W,8, 'Trunk aa not installed on adapter bb'

Explanation: The configuration file or the ROOT indicates that the specified trunk is in-stalled, but it is not. If none of the trunks that NetEx will try are installed, the adapter is not used correctly.

mmm
Specifies the NetEx module identifier.

aa
Specifies a two digit hexadecimal trunk mask.

bb
Specifies the host adapter's two digit hexadecimal unit address.

NXM mmm 018,I,15, 'cc'

Explanation: A Netex operator command was entered. If LOGCMD=ON is in effect, this message echoes the entered command to the Netex job log, SYSLOG, and the NTXLOG data set (if SET PRINT ON is active).

mmm
Specifies the NetEx module identifier.

ccccccc
Specifies the entered Netex command.

NXM mmm 020,E,15, 'Unknown NETEX command'

Explanation: An unknown operator command was entered.

mmm
Specifies the NetEx module identifier.

Operator Response: Re-enter the correct command.

Programmer Response: None.

NXM mmm 021,E,15, 'No operand keyword specified'

Explanation: A recognizable command was received but no keyword operand was specified.

mmm
Specifies the NetEx module identifier.

Operator Response: Re-enter the correct command with keyword.

Programmer Response: None.

NXM mmm 022,E,15, 'Invalid, missing, or out of range parameter ignored: aaaaaaaa'

Explanation: An invalid or out of range parameter was entered in response to one of the operator commands.

mmm
Specifies the NetEx module identifier.

aaaaaaa
Specifies the invalid, missing, or out of range parameter.

Operator Response: Re-enter the correct command with keyword.

Programmer Response: None.

NXM mmm 023,E,15, 'NREF not active'

Explanation: The SREF/TREF/DREF requested through the "Display Session/Transport/Driver NREF" operator command was not found.

mmm
Specifies the NetEx module identifier.

Operator Response: Re-enter the command with an active NREF.

Programmer Response: None.

NXM mmm 026,E,15, 'Error processing drvloop cmd: aaaaaaa, RC bbbb'

Explanation: NetEx encountered an error while processing the command (driver loopback message generation).

mmm
Specifies the NetEx module identifier.

aaaaaaa
Specifies the response message. Table 3 lists response messages.

bbbb
Specifies the return code. Table 3 lists and defines all reason codes.

Table 3. NXM mmm 026, E, 15 Reason Codes		
Response Message	Return Code	Description
BADHOST	1	Indicates host name is not defined in NetEx.
	97	Indicates there are no TPLs for the host.
	98	Indicates intrahost is not allowed.
	99	Indicates S720 in path is not allowed.
DREAD	93	Indicates no ddb ptr when read completed
	94	Indicates returned len <> len sent.
	95	Indicates there is no associated data ptr in ddb.

Table 3. NXM mmm 026, E, 15 Reason Codes		
Response Message	Return Code	Description
	96	Indicates data verification failed
ALL OTHERS	RC	Specifies the NetEx return code returned from the driver interface request

Programmer Response: Investigate the return code to determine the cause of the error.

NXM mmm 027,E,15, ‘Drvloop command completed successfully’

Explanation: The drvloop operator command completed successfully.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 028,I,15, ‘Trunk aa halted’

Explanation: The HALT TRUNK command completed successfully.

mmm

Specifies the NetEx module identifier.

aa

Identifies the trunk.

Operator Response: None.

Programmer Response: None.

NXM mmm 029,I,15, ‘Trunk aa started’

Explanation: The START TRUNK command completed successfully.

mmm

Specifies the NetEx module identifier.

aa

Identifies the trunk.

Operator Response: None.

Programmer Response: None.

NXM mmm 030,I,15, ‘Command complete’

Explanation: Operation requested by operator is complete.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 031,I,15, 'Alias aaaaaaaa not found'

Explanation: The DEALIAS command could not find the specified alias name.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the alias name.

Operator Response: None.

Programmer Response: Correct the alias name and resubmit the command.

NXM mmm 032,I,15, 'Max number of Alias names exceeded'

Explanation: The alias table is full (NX_TAB).

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: Expand the table (NX_TAB) or delete an alias before adding a new alias

NXM mmm 080,W,15, 'Invalid parameter on aaaaaaaa statement, ignored'

Explanation: An invalid or out of range parameter was specified on the indicated initialization statement. NetEx continues with initialization.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the type of initialization statement.

Operator Response: Report the problem to Network Executive Software's Customer Support.

Programmer Response: Correct statement in error.

NXM mmm 081,W,15, 'Out of range parameter on aaaaaaaa statement, set to bbbbbbbb'

Explanation: An out of range parameter was specified on the indicated initialization statement. NetEx sets the value to the new value indicated in the message and continues initialization.

mmm

Specifies the NetEx module identifier.

aaaaaaaaaa

Specifies the type of initialization statement.

bbbbbbbb

Specifies the new value for the out of range parameter.

Operator Response: Report the problem to Network Executive Software's Customer Support.

Programmer Response: Correct statement in error.

NXM mmm 082,I,15, 'Initialization file not present'

Explanation: The NetEx initialization file does not exist. The installation defaults is in effect for this execution of NetEx.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: If an initialization file was desired, define it and restart NetEx.

NXM mmm 083,F,15, 'STMT aaaaaaa: MODULE bbbbbbb NOT FOUND'

Explanation: The module name specified on the indicated initialization statement was not found by an MVS "LOAD" macro. NetEx terminates.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the type of initialization statement.

bbbbbbb

Specifies the module name.

Operator Response: Report the problem to Network Executive Software's Customer Support.

Programmer Response: Correct statement in error. Restart NetEx.

NXM mmm 084,E,12, 'Configuration activator error, reason aa'

Explanation: Configuration Activator (CFA) encountered an error while attempting to activate the PAM sender called Configuration Sender (CFS).

mmm

Specifies the NetEx module identifier.

aa

Specifies the reason code. Table 4 lists and defines all reason codes.

Table 4. NXM mmm 084, E, 12 Reason Codes	
Reason Code	Description
1	AUTOLOG ERROR
2	'SET SMSG ON' ERROR
3	'SMSG ... ' ERROR
4	'SET SMSG IUCV' ERROR

Programmer Response: Examine the reason code to determine the cause of the error.

NXM mmm 100,I,12, 'Permanent I/O error, user aaaaaaa CUU bbbb CSW ccccccccccccc'

Explanation: A permanent I/O error (not unit check) was detected.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the host adapter's subchannel address.

cccccccccccc

Specifies an eight byte hexadecimal I/O Channel Status Word (CSW).

Operator Response: Ensure OSA adapter is functioning properly. **Programmer Response:** None.

NXM mmm 101,I,12, 'Permanent Unit check, user aaaaaaa CUU bbbb Sense ccccccc ccccccc'

Explanation: A permanent unit check was detected.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the host adapter's subchannel address.

cccccc ccccccc

Specifies the host adapter's sense information in hexadecimal.

Operator Response: Ensure the OSA adapter is functioning properly. If the problem continues, contact Network Executive Software's customer support.

Programmer Response: None.

NXM mmm 102,I,08, 'DASSIGN by user aaaaaaa DREF bbbb'

Explanation: This is a NetEx driver assign message.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 103,I,08, 'D-FREE by user aaaaaaa DREF bbbb'

Explanation: This is a NetEx driver assign message.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 104,I I/O error sense-bytes are: aaaaaaaaa-aaaaaaaa-aaaaaaaa-aaaaaaaa-aaaaaaaa-aaaaaaaa-aaaaaaaa-aaaaaaaa

Explanation: An I/O error contained in the immediately preceding message (either NXMIOS106 or NXMIOS107) produced the 32 sense bytes displayed. This message displays the I/O error sense bytes for a specific host adapter.

mmm

Specifies the NetEx module identifier.

aaaaaaaa-aaaaaaaa

Specifies the host adapter's sense information in hexadecimal. If the sense information begins with 10FE, NetEx could not reach the host adapter. See the appropriate host adapter reference manual for a complete description of these sense bytes. See "Reference Material" on page iv for a list of related documents.

"A"-series adapters have only eight valid sense bytes; the balance of the display will be 0's.

Operator Response: Contact the Network Executive Software's customer support.

Programmer Response: None.

NXM mmm 105,I,08, 'I/O HALTED ON CCUU aaaa, IOHALT RC=bb'

Explanation: NetEx received an I/O halt.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the host adapter's subchannel address.

bb

Specifies the return code for the I/O halt.

Operator Response: None.

Programmer Response: None.

NXM mmm 106,I,06, 'Temp error aaaa,bb,ccccccc,eeeeeeee-eeeeeeee-eeeeeeee'

Explanation: An error was detected. This is a temporary error and will be retried. If the recovery is successful, there are no further messages. If the error is permanent, message 107 is issued. The fields are described below:

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the unit (I/O device) address.

bb

Specifies the failed command.

ccccccc

Specifies the Channel Status Word (CSW). This variable displays the device and channel status (bytes 1 and 2) followed by the residual count.

eeeeeeee-eeeeeeee-eeeeeeee

Specifies the first twelve bytes of the adapter's message proper.

Operator Response: None.

Programmer Response: None.

NXM mmm 107,I,12, 'Perm I/O error aaaa,bb,ccccccc,eeeeeeee-eeeeeeee-eeeeeeee'

Explanation: NetEx detected a permanent error. Either all of the retries failed, or the error condition prevented a retry. For failed retries, NetEx issues related messages (for example, 106) that provide additional information.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the unit (I/O device) address.

bb

Specifies the failed command.

ccccccc

Specifies the Channel Status Word (CSW). This variable displays the device and channel status (bytes 1 and 2) followed by the residual count.

eeeeeeee-eeeeeeee-eeeeeeee

Specifies the first twelve bytes of the adapter's message proper.

Operator Response: This message indicates that the OSA adapter may not be functioning properly and may require service.

Programmer Response: None.

NXM mmm 108,I,12, 'The adapter at address aaaa has been master cleared.'

Explanation: This message indicates that a message had arrived, but no actual message arrived.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the address.

Operator Response: None.

Programmer Response: None.

NXM mmm 109,I,06, 'Temp error aaaa,bb,ccccccc, dddddddd-dddddddd, eeeeeeee-eeeeeeee-eeeeeeee'

Explanation: An error was detected. This error is considered temporary, and is retried. If the recovery is successful, there is no further messages. If the error is permanent, message 107 will be issued. The fields are described below:

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the unit (I/O device) address.

bb

Specifies the failed command.

cccccccc

Specifies the Channel Status Word (CSW). This variable displays the device and channel status (bytes 1 and 2) followed by the residual count.

dddddddd-dddddddd

Specifies the host adapter's sense information in hexadecimal.

eeeeeeee-eeeeeeee-eeeeeeee

Specifies the first twelve bytes of the adapter's message proper.

Operator Response: None.

Programmer Response: None.

NXM mmm 110,I,12, 'Message checksum mismatch, user aaaaaaaa CUU bbbb expected cc received dd'

Explanation: Driver detected a checksum mismatch on an input operation.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the host adapter's subchannel address.

cc

Specifies the expected checksum.

dd

Specifies the checksum received by the driver.

Operator Response: Ensure that the OSA adapter is functioning properly. If the problem is continues, contact the Network Executive Software customer support group.

Programmer Response: None.

NXM mmm 111,I,15, 'Device aaaa: no path available (cc 3)'

Explanation: CC3 was detected on the specified device.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the host adapter's subchannel address.

Operator Response: Ensure that the OSA adapter is running. The device may not be attached or may be offline.

Programmer Response: None.

NXM mmm 112,I,15, 'Device aaaa: cc1 received, CSW bbbb SNS cccc'

Explanation: CC1 was detected on the specified device.

mmm

Specifies the NetEx module identifier.

aaaa
Specifies the host adapter's subchannel address.

bbbb
Specifies the device and channel status from the Channel Status Word (CSW).

cccc
Specifies sense bytes 0 and 1 from the host adapter.

Operator Response: None.

NXM mmm 113,I,15, 'Device aaaa: Adapter failure'

Explanation: ENDOP failed.

mmm
Specifies the NetEx module identifier.

aaaa
Specifies the host adapter's subchannel address.

Operator Response: Report the problem to Network Executive Software's customer support.

Programmer Response: None.

NXM mmm 114,E,15, 'Missing interrupt handler halting CUU aaaa'

Explanation: A missing interrupt was detected on the specified subchannel. A halt was issued to clear it.

mmm
Specifies the NetEx module identifier.

aaaa
Specifies the host adapter's subchannel address.

Operator Response: Check the adapter.

Programmer Response: None.

NXM mmm 120,I,06, 'Msg discarded, user aaaaaaaa DREF bbbb reason c'

Explanation: NetEx discarded a message for a driver interface user.

mmm
Specifies the NetEx module identifier.

aaaaaaaa
Specifies the NetEx user identifier.

bbbb
Specifies a two byte subchannel address on a host adapter used by the driver connection.

c

Specifies the reason code. Table 5 lists and defines all reason codes.

Table 5. NXM mmm 120, I, 06 Reason Codes		
Module ID	Reason Code	Description
DIR	1	too many messages already waiting on the data queue

Programmer Response: A list of reasons are shown in Table 6.

NXM mmm 127,I,06, 'Driver reader halting: user aaaaaaa DREF bbbb'

Explanation: The adapter that this driver interface reader is associated with has been halted.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 128,E,06, 'Driver reader rereading: user aaaaaaa DREF bbbb RC cccc'

Explanation: The driver interface reader received a retry indication from driver with the specified return code. The user may reissue the DREAD and ignore the received message.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

cccc

Specifies the driver return code. See "Driver Errors" on page 94 for a complete listing of these return codes.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 129,E,06, 'Driver reader pausing: user aaaaaaa DREF bbbb RC cccc'

Explanation: The driver interface reader received a disconnect indication from driver with the specified return code. Wait 30 seconds and then try again.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

cccc

Specifies the driver return code. See “Driver Errors” on page 94 for a complete listing of these return codes.

Operator Response: A permanent error was detected by driver, or an adapter was detached from NetEx. Verify that all equipment is operational.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 130,I,06, ‘DCONNECT request: user aaaaaaaa DREF bbbb’

Explanation: A driver interface user issued a DCONNECT request.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 132,I,06, ‘DDISC request: user aaaaaaaa DREF bbbb’

Explanation: A driver interface user issued a DDISCONNECT request.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 134,I,06, ‘DREAD timed out: user aaaaaaaa DREF bbbb’

Explanation: A driver interface user’s DREAD timed-out while waiting for data.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: Ensure that the read time-out value used on the request is correct. Determine if the sending side is still sending data.

NXM mmm 136,I,06, 'DSTATUS request: user aaaaaaaa DREF bbbb'

Explanation: A driver interface user issued a DSTATUS request.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 160,I,08, 'aaaaaaa allocated to bbb'

Explanation: The subchannel address identified in the message is allocated to NetEx.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the DDNAME.

bbbb

Specifies the subchannel address.

Operator Response: None.

Programmer Response: None.

NXM mmm 161,I,08, 'aaa allocation failure'

Explanation: The subchannel address identified in the message failed allocation for one of the following reasons:

1. The device is offline to MVS.
2. The device is already allocated.
3. The device is not a communications device type.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's subchannel address.

Operator Response: For cases one and two, be sure all required subchannel addresses are online to MVS and available to NetEx. If they are not, correct the situation and restart NetEx. For case three, report the problem to Network Executive Software customer support.

Programmer Response: For case three, be sure all required adapter subchannel addresses are defined as communication type devices to MVS.

NXM mmm 162,I,08, 'aaa unallocated'

Explanation: The subchannel address identified in the message is unallocated from NetEx.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's subchannel address.

Operator Response: None.

Programmer Response: None.

NXM mmm 163,I,08, 'aaa unallocation failure'

Explanation: The subchannel address identified in the message failed unallocation from NetEx.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's subchannel address.

Operator Response: None.

Programmer Response: None.

NXM mmm 164,I,08, 'aa device not found'

Explanation: The UCB for the subchannel address identified in the message could not be found. This device will not be allocated.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's subchannel address.

Operator Response: Report the problem to Network Executive Software's customer support.

Programmer Response: Be sure the subchannel addresses specified in the NetEx ADAPTER macros are correct.

NXM mmm 165,E,15, 'aaa invalid attention index'

Explanation: The specified attention index in NXMROO does not point to an available entry in the attention table.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the table index value.

Operator Response: Report the problem to Network Executive Software's customer support.

Programmer Response: Specify an available index on the AIDX operand of the ROOTGEN macro in module NXMROO.

NXM mmm 198,I,4, 'MODULE: xxxxxxxx LOADED/LOCATED AT aaaaaaaaa APFCODE: ccc LENGTH: IIIIIII (HEX BYTES)

Explanation: The specified module was loaded into memory. This informational message is displayed during NetEx/IP initialization.

mmm

Specifies the NetEx module identifier.

xxxxxxx

Specifies the name of the module that was loaded.

aaaaaaaaa

Specifies the memory address where the module was loaded

ccc

Specifies the authorization code of the module

IIIIII

Specifies the length of the module (in hex)

Operator Response: None.

Programmer Response: None.

NXM mmm 200,E,07, 'Invalid TRBTTYPE user aaaaaaa TREF bbbbb'

Explanation: The TRBTTYPE field in the TRB was invalid for this transport type.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: The transport level macros create the TRBTTYPE field. This field was either created or modified incorrectly. Correct the problem and resubmit the job.

NXM mmm 201,E,07, 'Invalid Transport type, user aaaaaaa'

Explanation: The TRBTTYPE field in the TRB contains an invalid transport type.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: The transport level macros create the TRBTTYPE field. This field was either created or modified incorrectly. Correct the problem and resubmit the job.

NXM mmm 202,E,07, 'Invalid T-ref user aaaaaaa TREF bbbbb'

Explanation: The TRBTREF field in the TRB contains an invalid reference number.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: The transport level macros create the TRBTREF field. This field was either created or modified incorrectly. Correct the problem and resubmit the job.

NXM mmm 203,I,05, 'TASSIGN by user aaaaaaaa TREF bbbb'

Explanation: This is a NetEx transport assign message.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 209,E,12, 'Message ignored: User aaaaaaaa Tref bbbbb Driver RC=cccc'

Explanation:

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cccc

Specifies the driver return code. See "Driver Errors" on page 94 for a complete listing of these return codes.

NXM mmm 210,I,05, 'TOFFER by user aaaaaaaa TREF bbbbb'

Explanation: The user sent a TOFFER to NetEx.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 211,E,06, 'Read request timed out user aaaaaaaa TREF bbbbb'

Explanation: Transport detected a TREAD or TOFFER request that exceeded its time-out value. This does not mean that the other system is down.

mmm
Specifies the NetEx module identifier.

aaaaaaa
Specifies the NetEx user identifier.

bbbbbb
Specifies the NetEx transport reference identifier for a connection.

Operator Response: It may be possible to rerun the job while ensuring the sending program is functioning correctly.

Programmer Response: Check the time-out value specified, also ensure that the peer (sending) program does not exceed this time-out value.

NXM mmm 212,E,12, 'Communications lost; user aaaaaaaa TREF bbbbb state cc'

Explanation: Transport lost communication with the remote host. An IDLE (poll) from the other host was not received in a period defined by DEADTIME. The state, contained in the message, indicates the transport state at the time of the error.

mmm
Specifies the NetEx module identifier.

aaaaaaa
Specifies the NetEx user identifier.

bbbbbb
Specifies the NetEx transport reference identifier for a connection.

cc
Specifies the state code. Figure 1 lists the possible state codes.

TUBSTATE	DS X	TRANSPORT STATE
WOFFCON	EQU 1	WAITING FOR OFFER OR CONNECT
WCONMSG	EQU 2	WAITING FOR CON MSG
WCONFIRM	EQU 3	WAITING CONFIRM CALL
WCONFMSG	EQU 4	WAITING CONFIRM MSG
DATAMODE	EQU 5	DATA MODE
DISCMODE	EQU 6	TRANSPORT IS DISCONNECTING
URECVCL	EQU 7	LOCAL USER HAS RECEIVED CLOSE INDICATION
NRECVCL	EQU 8	NETEX HAS RECVD ENTIRE CLOSE MSG FROM REMOTE
USENTCL	EQU 9	LOCAL USER HAS ISSUED CLOSE REQUEST
NSENTCL	EQU 10	NETEX HAS SENT THE CLOSE AND IT HAS BEEN ACKED
URECUSNT	EQU 11	
URECSNT	EQU 12	
NRECSNT	EQU 13	
NRECSNT	EQU 14	
CLOSPNOR	EQU 15	NETEX HAS SENT ALL DATA AND IT HAS BEEN ACKED ,
*		BUT NO CLOSE MSG HAS BEEN RECEIVED YET
CLOSPEND	EQU 16	WAITING FOR READ OF CLOSE MSG TO ENTER CLOSED
CLOSED	EQU 17	CLOSED - WAITING 3*IDLE TIMEOUT
CLOSDONE	EQU 18	FOR XMIT TIMEOUT NIT AT END OF CLOSED PERIOD

Figure 1. State Codes

Operator Response: Check OSA adapter and ensure the remote host is functional.

Programmer Response: None.

NXM mmm 213,E,08, 'Communications interrupted; user aaaaaaa TREF bbbbb state cc'

Explanation: Transport lost communication with the remote host. A period three times idletime has expired, and an IDLE was not received from the remote host. The state, contained in the message, indicates the transport state at the time of the error.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cc

Specifies the state code. Figure 1, in message "NXM mmm 212E,12" lists the possible state codes.

Operator Response: Check the OSA adapter and ensure the remote host is functional.

Programmer Response: None.

NXM mmm 214,E,12, 'Connect failed; user aaaaaaa TREF bbbbb STATE cc from dddd to eeee'

Explanation: A time-out occurred after the TCONNECT message was sent. The state, contained in the message, indicates the transport state at the time of the error.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cc

Specifies the state code. Figure 1, in message “NXM mmm 212E,12” lists the possible state codes.

dddd

Specifies the four digit local gna address of the failing path.

eeee

Specifies the four digit remote gna address of the failing path.

NXM mmm 215,I,08, ‘Communications re-established, user aaaaaaaaa TREF bbbbb state cc’

Explanation: Transport re-established a connection that was previously reported as broken (NXM213E). The state, contained in the message, indicates the transport state at the time of the error.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cc

Specifies the state code. Figure 1, in message “NXM mmm 212E,12” lists the possible state codes.

Operator Response: None.

Programmer Response: None.

NXM mmm 216,I,12, ‘Alternate path retry starting, user aaaaaaaaa TREF bbbbb state cc from dddd to eeee’

Explanation: Transport attempted to reestablish a connection that was previously reported to be broken (NXMVT1D213E). The state, contained in the message, indicates the transport state at the time of the error.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cc

Specifies the state code. Figure 1 in message “NXM mmm 212E,12” lists the possible state codes.

dddd

Specifies the four digit local gna address of the new path.

eeee

Specifies the four digit remote gna address of the new path..

NXM mmm 220,I,05, 'TCONNECT request, user aaaaaaaa TREF bbbbb'

Explanation: User issued a TCONNECT request.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 221,I,04, 'TCONFIRM request, user aaaaaaaa TREF bbbb'

Explanation: User issued a TCONFIRM request.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 222,I,05, 'TDISCONNECT request, user aaaaaaaa TREF bbbbb'

Explanation: User issued a TDISCONNECT request.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 223,E,12, 'Protocol error, user aaaaaaaa TREF bbbbb'

Explanation: User issued transport request when the transport was not in the correct state within the application program.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Check the sequence of macros issued by the application program.

NXM mmm 224,I,05, 'TCLOSE request, user aaaaaaaa TREF bbbbb'

Explanation: User issued a TCLOSE request.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 229,E,07, 'Max Transport connections exceeded, user aaaaaaaa'

Explanation: User issued TASSIGN when the number of transport connections currently existing is at the max allowed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: Wait until one or more existing connection completes before issuing the TASSIGN. ROOTMAXT may be increased to allow more concurrent transport connections.

NXM mmm 230,E,07, 'Invalid TREF user aaaaaaaa TREF bbbbb'

Explanation: User issued TASSIGN for a specific TREF which was invalid. Specific TREFS must be between X'8000' and X'FFFF'.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Correct the TREF.

NXM mmm 231,E,07, 'Duplicate TREF user aaaaaaaa TREF bbbbb'

Explanation: User issued TASSIGN for a specific TREF which was already started.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: Ensure the application being started is not already started, or force the duplicated TREF.

Programmer Response: Correct the TREF.

NXM mmm 232,E,07, 'Error on DASSIGN user aaaaaaaa TREF bbbbb RC cccc'

Explanation: Transport issued a DASSIGN macro for this transport user and it completed in error.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cccc

Specifies the driver return code. See "Driver Errors" on page 94 for a complete listing of these return codes.

Operator Response: None.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 233,I,05, 'Disconnect complete: user aaaaaaaa TREF bbbbb'

Explanation: Transport disconnect function is now complete.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 234,I,05, 'Connection Closed: user aaaaaaaa TREF bbbbb'

Explanation: Transport completed the close processing.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 235,E,06, 'Data waiting timed out: user aaaaaaaa TREF bbbbb'

Explanation: Data waiting for a TREAD has timed-out. The connection is disconnected.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Make sure reads are issued to NetEx in a timely manner. Increase READTIME if necessary.

NXM mmm 236,I,05, 'Connection Closed, close not read: user aaaaaaaa tref bbbbb'

Explanation: Transport has completed the close processing, but the user did not read the incoming close.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Examine the application close process.

NXM mmm 240,I,05, 'Communication re-established; user aaaaaaaa TREF bbbbb'

Explanation: A previous message stated that communication with the other host was lost. This message states that communication with the remote host was re-established.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 250,I,12, 'Invalid PAM user aaaaaaaa TREF bbbbb'

Explanation: The process of parsing the PAM has produced an error.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Correct either the PAM you supplied or the PAM that NetEx created.

NXM mmm 251,I,12, 'Halted adapter in PAM user aaaaaaaa TREF bbbbb'

Explanation: The PAM supplied contains a halted adapter.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

Operator Response: None.

Programmer Response: Retry after adapter is started.

NXM mmm 260,I,06, 'Message ignored, user aaaaaaaa TREF bbbbb reason cc'

Explanation: An invalid message was detected.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the NetEx transport reference identifier for a connection.

cc

Specifies the reason code. Table 6 lists and defines all reason codes.

Table 6. NXM mmm 260, I, 06 Reason Codes		
Module ID	Reason Code	Description
T1D	1	message type (byte 8) not F2 or F3
	10	dlen invalid
	11	dlevel invalid 21. tlevel invalid
	23	tmsgrefl (local TREF) invalid

Table 6. NXM mmm 260, I, 06 Reason Codes

Module ID	Reason Code	Description
	24	idle message received in the wait for connect state
	25	connect message received, not in the wait for connect state
	26	confirm message received, not in the wait for confirm state
	27	disconnect message received in the wait for connect state
	28	write message received, not in the data mode state 29. un-defined msg type received
	30	tlength incorrect
	31	tmsgrefr (remote TREF) invalid
	32	disc subfield length incorrect
	33	ack subfield length incorrect
	34	con subfield length incorrect
	35	data subfield length incorrect
	50	connect subfield in a msg which is not a connect or confirm
	51	bad pam received
	59	lrn of msg received >= next lrn for user + max recv buffs
	60	neither sdata nor udata valid bits set in data subfield
	61	2nd part msg came in - 1st part not queued
	90	same as reason 1
	91	tub not found for the TREF in received msg
T2D	1	received msg in disconnect mode 2. tlevel <> 2
	3	idle msg received in wait for connect msg state
	4	idle msg received in woffcon state (idle)
	5	connect msg received and not in wait for connect msg state
	6	confirm msg received and not in wait for confirm msg state
	7	disc msg received in wait for connect msg state
	8	disc msg received in closed state
	9	disc msg received in woffcon state (idle)
	10	data msg recvd in bad state
	11	close msg recvd in bad state
	12	undefined msg type received
	13	tlength is incorrect
	14	disc subfield length incorrect 15. disc subfield in a msg other than a disconnect msg

Table 6. NXM mmm 260, I, 06 Reason Codes		
Module ID	Reason Code	Description
	16	ck subfield length incorrect
	17	con subfield length incorrect
	18	con subfield in a disconnect msg
	19	undefined subfield type
	20	data subfield length incorrect (end segment)
	21	data subfield in an idle msg (end segment) 23. lrn of msg > tub-plrn+tubrbmax
	23	data queue overrun
	24	waiting for NCONFIRM ind from network, but did not get it
	25	waiting for NCONNECT ind from network, but did not get it
	30	data subfield length incorrect (not end segment) 31. data subfield in an idle msg (not end segment)
	32	not an end segment, and not a data or close msg

Programmer Response: Issue a trace to capture the invalid message to determine the error. Table 6 lists the reasons for the error.

NXM mmm 300,E,07,'Invalid session request aa from user bbbbbbbb SREF cccc'

Explanation: NetEx user issued invalid request.

mmm

Specifies the NetEx module identifier.

aa

Specifies the invalid session request.

bbbbbbbb

Specifies the NetEx user identifier.

cccc

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 301,E,07, 'Invalid session class aa from user bbbbbbbb SREF cccc'

Explanation: NetEx user specified unsupported class of service.

mmm

Specifies the NetEx module identifier.

aa

Specifies the unsupported service class.

bbbbbbbb

Specifies the NetEx user identifier.

cccc

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 302,E,07, 'Invalid SREF user aaaaaaaa SREF bbbbb'

Explanation: NetEx user specified invalid session reference number.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 303,E,09, 'Maximum sessions exceeded, request for user aaaaaaaa failed'

Explanation: NetEx user offer or connect attempt exceeded the maximum number of session connections (ROOTLIMS or ROOTMAXS).

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 310,I,09, 'User aaaaaaaa offering bbbbbbbb'

Explanation: NetEx user on offer queue.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbbbb

Specifies the offer name.

Operator Response: None.

Programmer Response: None.

NXM mmm 312,E,06, 'Offer request timed out for user aaaaaaaa SREF bbbbb'

Explanation: The specified SOFFER timed-out.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 315,I,09, 'User aaaaaaaa SREF bbbbbb offer complete: From user ccccccc host dddddddd'

Explanation: NetEx session connection completed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the session reference identifier (for an active session connection to NetEx).

ccccccc

Specifies the NetEx user identifier.

ddddddd

Specifies the host name.

Operator Response: None.

Programmer Response: None.

NXM mmm 316,I,09, 'User aaaaaaaa connected to bbbbbbbb on ccccccc SREF dddd'

Explanation: NetEx session connection completed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbbbb

Specifies the connecting name.

ccccccc

Specifies the host name.

dddd

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 317,I,09, 'User aaaaaaaa withdrawing offer bbbbbbbb RC cccc'

Explanation: Offer completed with nonzero return code (RC).

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbbbb

Specifies the offer name.

cccc

Specifies the return code. See "Session Errors" on page 98 for a complete listing of these return codes.

Operator Response: None.

Programmer Response: Refer to the return code.

NXM mmm 320,I,07, 'User aaaaaaaa connecting to bbbbbbbb on ccccccc'

Explanation: This message indicates a NetEx session connection attempt.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbbbb

Specifies the offer name.

ccccccc

Specifies the host name.

Operator Response: None.

Programmer Response: None.

NXM mmm 321,I,09, 'User aaaaaaaa received disconnect sref bbbbb'

Explanation: The specified user received a disconnect on the connection identified by the sref..

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 322,I,09, 'User aaaaaaaa disconnecting SREF bbbbb'

Explanation: This message indicates a NetEx session disconnection.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: None.

Programmer Response: None.

NXM mmm 330,E,09, 'aaaaaaaa bbbbbbbb failed RC cccc'

Explanation: Part of the receiving side of the remote operator function failed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the offer name.

bbbbbbbb

Specifies the host name.

cccc

Specifies the return code. See “NRBSTAT Error Codes” on page 89 for a complete listing of these return codes.

Operator Response: Log the return code for future reference.

Programmer Response: Response to this message varies. Use the return code (RC) to determine the appropriate response.

NXM mmm 331,I,15, 'Connect to aaaaaaaa failed reason is bbbbbbbbbbbb'

Explanation: Part of the receiving side of the remote operator function failed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the host name.

bbbbbbbbbbbb

Specifies the reason for the failure. See “NRBSTAT Error Codes” on page 89 for a complete listing of these return codes.

Operator Response: Log the return code for future reference.

Programmer Response: Response to this message varies. Use the return code (RC) to determine the appropriate response.

NXM mmm 334,I,15, 'Remote Command aaaaaaaa failed RC bbbb'

Explanation: Part of the sending side of the remote operator function failed.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the failing remote command.

bbbb

Specifies the return code.

Operator Response: Log the return code for future reference.

Programmer Response: Response to this message varies. Use the return code (RC) to determine the appropriate response.

NXM mmm 335,E,15, 'NTXOPER aaaaaaaa failed, invalid protocol'

Explanation: The opposite party in the connect-confirm sequence for the remote operator function sent unrecognizable data.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the host name.

Operator Response: Log the return code for future reference.

Programmer Response: If protocol type is not x'01' then data length on connect-confirm must only be one byte.

NXM mmm 337,E,15, 'aaaaaaaa not authorized to issue: bbbbbbbbbbbbbbbb command'

Explanation: The opposite party sent a class A operator command and the local side is only authorized to issue class G commands.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbbbbbbbbbbbb

Specifies the unauthorized command.

Operator Response: If you want them to issue class A commands, then authorize the other party for class A commands.

Programmer Response: None.

NXM mmm 338,I,12, 'Halting session user aaaaaaa SREF bbbbb'

Explanation: NetEx operator issued HALT SREF command.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the session reference identifier (for an active session connection to NetEx).

Operator Response: Informational message.

Programmer Response: See operator for more information.

NXM mmm 339,I,15, 'Operator Draining NETEX'

Explanation: NetEx operator issued DRAIN NETEX command.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: Will receive 0505 on offer or connect.

NXM mmm 340,I,15, 'NETEX DRAIN complete'

Explanation: All NetEx Sessions are done and system drained.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 341,I,15, 'NETEX START complete'

Explanation: NETEX START command was issued.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 342,E,12, 'Unable to start adapter aa reason bb'

Explanation: NETEX START command was issued.

mmm

Specifies the NetEx module identifier.

aa

Specifies the host adapter's two digit hexadecimal unit number.

bb

Specifies the reason code. Table 7 lists and defines all reason codes.

Table 7. NXM mmm 342, E, 12 Reason Codes	
Reason Code	Description
1	Adapter is not halted
2	Unable to allocate - MVS only 3. Unable to contact device
4	Halt already in progress
5	Start already in progress
8	Start failed - verification failure or MIH halted (adapter is broken)

Table 7. NXM mmm 342, E, 12 Reason Codes	
Reason Code	Description
9	Input subchannel could not be allocated

Operator Response: Check reason and determine if corrective action should be taken.

Programmer Response: None.

NXM mmm 343,E,12, 'Unable to halt adapter aa reason bb'

Explanation: NETEX HALT command was issued.

mmm

Specifies the NetEx module identifier.

aa

Specifies the host adapter's two digit hexadecimal unit number.

bb

Specifies the reason code. Table 8 lists and defines all reason codes.

Table 8. NXM mmm 343, E, 12 Reason Codes	
Reason Code	Description
1	Adapter is already halted
4	Start already in progress
5	Halt already in progress

Operator Response: None.

Programmer Response: None.

NXM mmm 344,I,12, 'Start successful - adapter aa'

Explanation: NETEX START command was issued.

mmm

Specifies the NetEx module identifier.

aa

Specifies the host adapter's two digit hexadecimal unit number.

Operator Response: None.

Programmer Response: None.

NXM mmm 345,I,12, 'Halt successful - adapter aa'

Explanation: This message indicates an NETEX HALT command was issued successfully.

mmm

Specifies the NetEx module identifier.

aa

Specifies the host adapter's two digit hexadecimal unit number.

Operator Response: None.

Programmer Response: None.

NXM mmm 346,E,12, 'NETEX not initialized - rejected command aaaaaaa'

Explanation: NetEx command was issued.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the type of command.

Operator Response: Wait for initialization complete message.

Programmer Response: None.

NXM mmm 347,I,15, 'NETEX KILL command being processed'

Explanation: NETEX KILL command was issued.

mmm

Specifies the NetEx module identifier.

Operator Response: Wait for NetEx to end.

Programmer Response: None.

NXM mmm 348,I,15, 'Adapter aa halted due to adapter error'

Explanation: Adapter does not respond to ENDOP command.

mmm

Specifies the NetEx module identifier.

aa

Specifies the host adapter's two digit hexadecimal unit number.

Operator Response: Report the problem to Network Executive Software's customer support.

Programmer Response: None.

NXM mmm 349,I,12, 'Host aaaaaaa drained'

Explanation: NetEx operator issued DRAIN HOST= command.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the name of the host adapter.

Operator Response: This is an informational message.

Programmer Response: See operator for more information.

NXM mmm 350,I,12, 'Host aaaaaaa started'

Explanation: NetEx operator issued START HOST= command.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the name of the host adapter.

Operator Response: This is an informational message.

Programmer Response: See operator for more information.

NXM mmm 351,E,12, 'Host not found'

Explanation: NetEx operator issued START HOST= or DRAIN HOST= command, but the specified hostname is not known to NetEx.

mmm

Specifies the NetEx module identifier.

Operator Response: Ensure that you entered the correct hostname.

Programmer Response: None.

NXM mmm 352,E,12, 'Path not found'

Explanation: NetEx operator issued START PATH= or DRAIN PATH= command, but the specified PATH is not known to NetEx.

mmm

Specifies the NetEx module identifier.

Operator Response: Ensure that you entered the correct path.

Programmer Response: None.

NXM mmm 353,E,12, 'Group gggggggg has path in host hhhhhhhh'

Explanation:

mmm

Specifies the NetEx module identifier.

hhhhhhhh

Specifies NetEx host name

Operator Response: This is an informational message.

Programmer Response: None.

NXM mmm 354,E,12, 'Host hhhhhhhh has path'

Explanation:

mmm

Specifies the NetEx module identifier.

hhhhhhhh

Specifies NetEx host name

Operator Response: This is an informational message.

Programmer Response: None.

NXM mmm 401,E,15, 'Console buffer shortage: aaaaa messages lost'

Explanation: This message indicates the console was in "more..." status or busy and the queue limit was exceeded. It displays the number of lost operator messages.

mmm

Specifies the NetEx module identifier.

aaaaa

Specifies the number of lot messages.

Operator Response: Keep the console free.

Programmer Response: None.

NXM mmm 431,E,12, 'Unknown I/O return code (aa) from DOIO. Dev bbb'

Explanation: An unrecoverable TAPE I/O error was encountered during trace to tape processing but the code was unknown to NetEx.

mmm

Specifies the NetEx module identifier.

aa

Specifies the unknown return code.

bbb

Specifies the device number for the tape device.

Operator Response: Determine reason for I/O error, and restart tracing to tape (if desired).

Programmer Response: None.

NXM mmm 432,I,12, 'Tracing to tape suspended'

Explanation: Tracing to tape was suspended either due to an I/O error or shutdown.

Operator Response: If due to an I/O error, restart (if desired), else no response.

Programmer Response: None.

NXM mmm 440,F,15, 'No configuration deck in RDR aaa'

Explanation: Intervention required was received from designated RDR and was interpreted as no deck available.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the device number for the reader device.

Operator Response: Determine why RDR got intervention required message and re-IPL NetEx.

Programmer Response: None.

NXM mmm 441,F,15, 'Fatal configuration error due to above condition. Restart NETEX.'

Explanation: A previous message revealed a fatal error that lead to no configuration being generated.

mmm

Specifies the NetEx module identifier.

Operator Response: Determine what previous message caused fatal condition and correct.

Programmer Response: None.

NXM mmm 442,F,8, 'Configuration Complete. RC aa'

Explanation: Configuration is complete and has the stated return code.

mmm

Specifies the NetEx module identifier.

aa

Specifies the return code. If the return code is not 0, there was a configuration error. A return code of 8 (or greater) generates message 441 and an ABEND.

Operator Response: Examine return code. The configuration diagnostics are listed in the SYSPRINT data set.

Programmer Response: None.

The following messages are issued before EMSG handling is active and are hard-coded into the "IPL" module or NetEx profile exec.

NXM mmm 500,F,15, 'NETEX fatal error - code aaaaaa'

Explanation: NetEx encountered a fatal error.

The termination routine in NXMINI issues this message. The termination routine uses WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

aaaaaa

Specifies the fatal error code. If aaaaaa=NXMbbb, NetEx initiated the ABEND where bbb corresponds to the NetEx Module. If aaaaaa=Snnn, the system initiated the ABEND. See "ABEND Codes" on page 117 for a complete listing of these codes.

Operator Response: Notify Network Executive Software customer support and specify the fatal error code.

Programmer Response: None.

NXM mmm 501,F,15, 'NETEX trace subtask fatal error - code aaaa'

Explanation: This is a NetEx trace-to-tape subtask ABEND. The termination routine issues this message in NXMTRT. The termination routine uses WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the NetEx fatal error code. See "ABEND Codes" on page 117 for a complete listing of these codes.

Operator Response: Report the problem to Network Executive Software's customer support.

Programmer Response: None.

NXM mmm 502,I,12, 'NETEX termination complete'

Explanation: This is a NetEx termination message.

The termination routine in NXMINI issues this message. The termination routine uses WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 503,I,12, 'NETEX USER TERMINATION COMPLETE'

Explanation: This is a NetEx user termination message.

The resource manager termination routine issues this message on behalf of user programs that terminate with an outstanding NRB request. The resource manager termination routine uses WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 504,F,12, 'TERMINATION ROUTINE DISABLED'

Explanation: This is a NetEx resource manager message. The resource manager termination routine issues this message because the resource manager detected a failure when issuing the cleanup request to NetEx. NetEx encountered an error during termination that prevented it from completing its termination processing. The resource manager termination routine uses WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

Operator Response: Schedule a DRAIN and KILL of NetEx at the earliest possible moment and restart NetEx.

Programmer Response: None.

NXM mmm 505,F,12, 'INCOMPATIBLE TERMINATION ROUTINE DETECTED'

Explanation: This is a NetEx resource manager message. The resource manager termination routine issues this message because the resource manager detected an incompatibility between NetEx and the resource manager that prevents it from being used. The resource manager termination routine uses the WTO macro rather than the EMSG macro.

mmm

Specifies the NetEx module identifier.

Operator Response: This is most likely due to an installation problem caused by a combination of modules from multiple release levels in the same NetEx/IP load library.

Programmer Response: None.

NXM mmm 506,F,12, 'INCOMPATIBLE NXMUIF00 MODULE DETECTED'

Explanation: This is a NetEx application user interface message. The user interface issues this message because it detected an incompatibility between NetEx and the application user interface that prevents it from being used.

mmm

Specifies the NetEx module identifier.

Operator Response: This is most likely due to an installation problem caused by a combination of modules from multiple release levels in the same NetEx/IP load library.

Programmer Response: None.

NXM mmm 510,W,04, 'Unsolicited interrupt received on aaa for user bbbbbbbb'

Explanation: NetEx detected an unsolicited message on the subchannel address indicated in the message. The NetEx unsolicited message handler is scheduled to clear the device.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's hexadecimal subchannel number.

bbbbbbbb

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 511,E,08, 'Subchannel address aaa cleared - user bbbbbbbb'

Explanation: The NetEx unsolicited message handler cleared the subchannel address indicated in the message. Refers to the 510 message.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the host adapter's hexadecimal subchannel number.

bbbbbbbb

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 520,F,15, 'Subsystem aaaa not dormant'

Explanation: The NetEx subsystem identified in the message was started before a previous NetEx subsystem of the same name has completed termination.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the subsystem name.

Operator Response: Wait until the previous NetEx completes termination, then try again, or start NetEx with the emergency override parameter. See the Emergency Override Procedure section in the *H210IPZ NetEx/IP for IBM z/OS Operating Systems Software Reference Manual*.

Programmer Response: None.

NXM mmm 521,F,15, 'Module aaaaaaa not found'

Explanation: The NetEx link pack area load module identified in the message could not be located. This message applies to MVS only.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx module name.

Operator Response: Report the problem to Network Executive Software's customer support. NetEx cannot be started until the indicated load module is linked.

Programmer Response: Make sure the load module is linked with the name specified in the initialization statements.

NXM mmm 522,F,15, 'aaaaaaa not compatible with subsystem bbbb'

Explanation: The NetEx subsystem interface module or NetEx termination routine identified in the message cannot be used with the indicated NetEx subsystem because of an incompatibility with the subsystem vector table. This message applies to MVS only.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx module that detected the incompatibility.

bbbb

Specifies the subsystem name.

Operator Response: This is most likely due to an installation problem caused by a combination of modules from multiple release levels in the same NetEx/IP load library.

Programmer Response: None.

NXM mmm 523,F,15, 'Module aaaaaaa not loaded in Link Pack Area'

Explanation: The NetEx link pack area resident load module identified in the message was not LOAD located within the link pack area. During initialization, an MVS LOAD macro is issued for each of the eight LPA resident NetEx modules. The address returned from the LOAD is checked against the lowest possible address of common storage.

NOTE: If a copy of the module has been linked into the JOB or STEPLIB, the LOAD brings a copy of that module into the NetEx address space, which then obviously fails the address test.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the name of the NetEx module.

Operator Response: Report the problem to Network Executive Software's customer support. NetEx cannot be started until the indicated load module can be LOAD located within the link pack area.

Programmer Response: The load must be linked into a library that builds the LPA and not into the JOB or STEPLIB that contains the NetEx executable.

NXM mmm 524,F,15, 'Termination module name not contained in IEAVTRML'

Explanation: The name of the NetEx termination clean-up routine is not contained in the IEAVTRML CSECT of module IGC0001C. This message applies to MVS only.

mmm

Specifies the NetEx module identifier.

Operator Response: Report the problem to Network Executive Software's customer support. NetEx cannot be started until the name resource manager termination routine is placed in the identified CSECT.

Programmer Response: Make sure the name is placed in IEAVTRML. Refer to the installation instructions.

NXM mmm 525,W,16, 'NXMINI attempting recovery: ABEND aaaa'

Explanation: The NetEx ESTAE has determined that recovery from a particular system ABEND condition may be attempted. (The table of system ABEND codes for which recovery may be attempted resides within module NXMINI, label "RETABLE.")

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the ABEND code. See "ABEND Codes" on page 117 for a complete listing of these codes.

Operator Response: None.

Programmer Response: None.

NXM mmm 526,W,16, 'aaaa ABEND: recovery successful'

Explanation: Attempted recovery from system ABEND aaaa completed successfully; normal processing will continue.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the ABEND code. See "ABEND Codes" on page 117 for a complete listing of these codes.

Operator Response: None.

Programmer Response: None.

NXM mmm 527,F,15, 'Creating cross-memory environment failed – return code rrrr'

Explanation: Initialization failure when attempting to create the Netex cross-memory environment.

mmm

Specifies the NetEx module identifier.

rrrr

Identifies the cross-memory return code.

Operator Response: Notify systems programmer.

Programmer Response: None.

NXM mmm 530,I,08, 'Trace to tape aaa started'

Explanation: The NetEx trace function has been started and is recording trace records to the tape unit identified in the message.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the number of the tape device.

Operator Response: None.

Programmer Response: None.

NXM mmm 531,E,12, 'Trace to tape aaa already in progress'

Explanation: The NetEx trace function is already in progress to the tape unit identified in the message.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the number of the tape device.

Operator Response: If tracing is desired to a different tape unit, then first stop the current trace.

Programmer Response: None.

NXM mmm 532,I,08, 'Trace to tape aaa stopped'

Explanation: The NetEx trace function to the tape unit identified in the message is terminated.

mmm

Specifies the NetEx module identifier.

aaa

Specifies the number of the tape device.

Operator Response: None.

Programmer Response: None.

NXM mmm 550,W, 'ENTERING NXMINITM'

Explanation: Termination processing has commenced at entry-point "NXMINITM" as a result of a "c KILL NETEX" operator request.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 555,W, 'ENTERING NXMINIAB'

Explanation: Termination processing has commenced at entry-point "NXMINIAB" as a result of NetEx encountering a logical condition which precludes further processing.

mmm

Specifies the NetEx module identifier.

Operator Response: Retain NetEx console logs.

Programmer Response: Retain any accompanying dumps and console output. Contact Network Executive Software's customer support.

NXM mmm 560,W, 'ENTERING NXMINIES'

Explanation: Termination processing has commenced at entry-point "NXMINIAB" as a result of a system-initiated ABEND. This WTO is issued by the NetEx ESTAE.

mmm

Specifies the NetEx module identifier.

Operator Response: Retain NetEx CONSOLE LOGS.

Programmer Response: Retain any accompanying dumps and console output. Contact Network Executive Software's customer support.

NXM mmm 575,W, 'NETEX USER ASCB NOT FOUND FOR JOB nnnnnnnn IN ASID aaaa'

Explanation: In preparation for the SCHEDULE of the SRB required to move data to/from the user by NetEx, the LOCASCB system-service determined that the address-space control-block (ASCB) for the user's address-space is no longer valid. The SRB is not SCHEDULEd; no data movement will be attempted.

mmm

Specifies the NetEx module identifier.

nnnnnnnn

Specifies the jobname of the job not found

aaaa

Specifies the ASID number in which the job was running

Operator Response: None.

Programmer Response: None.

NXM mmm 580,I,08, 'Implied ACK for NRF Block aaaaa'

Explanation: An NRF block was assumed ACKed because its sequence number is beyond the 16 ACK bits.

mmm

Specifies the NetEx module identifier.

aaaaa

Specifies the NRF block.

Operator Response: None.

Programmer Response: None.

NXM mmm 581,I,08, 'NRF record(s) lost - memory unavailable'

Explanation: An NRF record could not be inserted into a buffer because a new buffer could not be allocated.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 582,I,08, 'NRF halted'

Explanation: An NRF halt command was issued.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 583,I,08, 'NRF started'

Explanation: An NRF start command was issued.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 584,E,08, 'NRF not started - lcl adapter not available'

Explanation: NRF cannot start because there is no local adapter to use or the one specified is not there.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 585,E,08, 'NRF not started - "to" DREF invalid'

Explanation: NRF cannot start because the DREF to which NRF ends records is not valid (0 probably).

Operator Response: None.

Programmer Response: None.

NXM mmm 586,E,08, 'NRF not started - buffer not available'

Explanation: NRF cannot start because a buffer cannot be allocated for NRF records.

mmm

Specifies the NetEx module identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 587,E,08, 'NRF block aaaaa lost - not ACKed'

Explanation: An NRF block was discarded because it was not ACKed and it had gone through all retries.

mmm

Specifies the NetEx module identifier.

aaaaa

Specifies the network reference block number.

Operator Response: None.

Programmer Response: None.

NXM mmm 600,E,07, 'Invalid network request: user aaaaaaaa NREF bbbbbb'

Explanation: The WRBREQ field in the WRB was invalid for this transport type.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: The network macros create the WRBREQ field. This field was either created or modified incorrectly. Correct the problem and resubmit the job.

NXM mmm 601,E,07, 'Invalid network protocol type user aaaaaaaa'

Explanation: The WRBPROT field in the WRB contains an invalid network type.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: The network macros create the WRBPROT field. This field was either created or modified incorrectly. Correct the problem and resubmit the job.

NXM mmm 602,I,05, 'N-Assign by user aaaaaaaa NREF bbbbbb'

Explanation: This is a NetEx network assign message.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None

Programmer Response: None.

NXM mmm 603,E,07, 'Invalid NREF user aaaaaaaa NREF bbbbb'

Explanation: The WRBNREF field in the WRB contains an invalid reference number (NUB not there).

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: The network macros create the WRBNREF field. This field was either created or modified incorrectly. The network connection may already have been terminated when the request was issued. Correct the problem and resubmit this job.

NXM mmm 610,I,05, 'NOFFER by user aaaaaaaa NREF bbbbb'

Explanation: The user issued an NOFFER.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: None.

NXM mmm 620,I,05, 'NCONNECT request, user aaaaaaaa NREF bbbbb'

Explanation: User issued a NCONNECT request.

mmm

Specifies the NetEx module identifier.

aaaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: None.

NXM mmm 621,E,12, 'Virtual Circuit not established, user aaaaaaaa NREF bbbbb'

Explanation: An NCONNECT was issued with a PAM which included HYPERbus in the path. The virtual circuit establishment for the path failed.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: Ensure all equipment for the configuration is operational.

Programmer Response: Refer to the appropriate manual for a description of the errors.

NXM mmm 622,I,05, 'Virtual Circuit established, user aaaaaaaa NREF bbbbb'

Explanation: An NCONNECT was issued with a pam which included HYPERbus in the path. The virtual circuit was established.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: None.

NXM mmm 623,E,15, 'Protocol error, user aaaaaaaa NREF bbbbb'

Explanation: User issued network request without network being in the correct state.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: Check the sequence of macros issued by the application program.

NXM mmm 624,E,12, 'NCONNECT failed, user aaaaaaaa NREF bbbbb RC cccc'

Explanation: A Network connect request has failed.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the network reference identifier for an active network connection to NetEx.

cccc

Specifies the return code. See “NRBSTAT Error Codes” on page 89 for a complete listing of these codes.

Operator Response: None.

Programmer Response: Check the return code to determine the cause of the error. Transport attempts alternate path retry when this occurs.

NXM mmm 629,E,07, ‘Max # Network connections exceeded, user aaaaaaa’

Explanation: User issued NASSIGN when the number of network connections currently existing is at the max allowed.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

Operator Response: None.

Programmer Response: Wait until one or more existing connects complete before issuing the NASSIGN. ROOTMAXN may be increased to allow more concurrent network connections.

NXM mmm 630,E,07, ‘Invalid NREF user aaaaaaa NREF bbbbb’

Explanation: User issued NASSIGN for a specific NREF which was invalid.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: Correct the NREF.

NXM mmm 631,E,07, ‘Duplicate NREF user aaaaaaa NREF bbbbb’

Explanation: User issued NASSIGN for a specific NREF which was already started.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: Ensure the application that is being started is not already started, or force the duplicated NREF.

Programmer Response: Correct the NREF.

NXM mmm 632,E,08, 'Error on DASSIGN user aaaaaaaa RC bbbb'

Explanation: Network initialization issued a DASSIGN for an input subchannel and it failed.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbb

Specifies the return code. See "NRBSTAT Error Codes" on page 89 for a complete listing of these codes.

Operator Response: None.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 633,I,05, 'Disconnect complete: user aaaaaaaa NREF bbbbb'

Explanation: Network disconnect function is now complete.

mmm

Specifies the NetEx module identifier.

aaaaaaa

Specifies the NetEx user identifier.

bbbbbb

Specifies the network reference identifier for an active network connection to NetEx.

Operator Response: None.

Programmer Response: None.

NXM mmm 656,I,06, 'Network reader starting: DREF aaaa'

Explanation: The adapter that this reader services has been started.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 657,I,08, 'Network reader halting: DREF aaaa'

Explanation: The adapter that this reader services has been halted.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies a two byte subchannel address on a host adapter used by the driver connection.

Operator Response: None.

Programmer Response: None.

NXM mmm 658,E,06, 'Network Reader rereading: DREF aaaa RC bbbb'

Explanation: The Network reader received a retry indication from driver with the specified return code. It reissues the DREAD and ignores the received message.

mmm
Specifies the NetEx module identifier.

aaaa
Specifies a two byte subchannel address on a host adapter used by the driver connection.

bbbb
Specifies the return code. See "NRBSTAT Error Codes" on page 89 for a complete listing of these codes.

Operator Response: None.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 659,E,08, 'Network Reader Pausing: DREF aaaa RC bbbb'

Explanation: The Network reader received a disconnect indication from driver with the specified return code. It waits 30 seconds and then tries again.

mmm
Specifies the NetEx module identifier.

aaaa
Specifies a two byte subchannel address on a host adapter used by the driver connection.

bbbb
Specifies the return code. See "NRBSTAT Error Codes" on page 89 for a complete listing of these codes.

Operator Response: A permanent error was detected by driver. Ensure that all equipment is operational.

Programmer Response: Investigate the return code shown in the message.

NXM mmm 660,I,06, 'Message ignored, user aaaaaaaa NREF bbbbbb reason cc'

Explanation: An invalid message was detected.

mmm
Specifies the NetEx module identifier.

aaaaaaaa
Specifies the NetEx user identifier.

bbbbbb
Specifies the network reference identifier for an active network connection to NetEx.

cc
Specifies the reason code. Table 9 lists and defines all reason codes.

Table 9. NXM mmm 660, I, 06 Reason Codes		
Module ID	Reason Code	Description

Table 9. NXM mmm 660, I, 06 Reason Codes

Module ID	Reason Code	Description
RDR	1	message type (byte 8) not F2, F3, or FE
	2	N-level (or D-level) invalid
N2Dt	3	Found bad network protocol length.
	4	checksums do not match.
	5	NETEX user block (NUB) not found.
	6	Received message when in disconnect mode.
	7	Message is not from correct remote NREF.
	8	Received a non-NCONFIRM while in connecting state.
	9	NCONFIRM message, no connect data present, and it's not a second part.
	10	Received a message which is not an NCONNECT while in offered state.
	11	NCONNECT message, no connect data present, and it's not a second part.
	12	Received NCONFIRM while in confirming state.
	13	I am the connector and I received an NCONNECT message.
	14	I am the offerer and I received an NCONFIRM message.
	15	Received second part of message, but there is no indication that the first part is queued.
	16	The second part of sequence number does not match waiting first part.
	17	The odpresent flag not set and pdpres flag not set in second part of message.
	18	Received message when in assigned mode
	20	Remote's maximum PDATA is 0.
	21	Remote's maximum ODATA is too small.
	25	aft remote operator
	60	Actual length read is <> length in NPLENGTH.
80	Received second part. Discarded first part because sequence numbers do not match.	
81	Discarded first part after receiving another first part.	

Table 9. NXM mmm 660, I, 06 Reason Codes		
Module ID	Reason Code	Description
	83	Halted adapter in PAM.
	84	nflags=2part, both pdpres and cdpres flags set.
	85	nflags=2part, but neither odpres or pdpres flag set.
	87	Bad PAM.
	88	notype <> netcon nor netcnf.
	89	notype = netcnf but it is not an NCON-FIRM message.
	90	The connect data is not present in first part of a connect.
	91	The connect data is not present in first part of a confirm.
	92	notype = netcon but it is not an NCON-NECT message.
	93	(noplens-1) <> noconlen.
	94	NCONNECT message, but noplens = netcnlen (no pam).
	95	NCONNECT message, network unique identifier is incorrect.
	96	noplens + start of ODATA <> PAM len + start of PAM.
	97	CONNECT or confirm ODATA is present, but it is not an NCONNECT or NCON-FIRM message.
	98	NCONFIRM message and noplens <> netcnlen
	98	NCONFIRM message, network unique identifier is incorrect.
	99	

NetEx received a PAM file (entry) for which there are no entries in the local NCT/PAM for that adapter. Update or modify PAM file to reflect current adapters.

Operator Response:

Programmer Response: Use trace to capture the invalid message. Table 9 describes the reason for the error.

NXM mmm 661,E,08,Loop-back adapt addr error ‘Driver loopback destination addr is netwdrdr addr aaaa; message discarded’

Explanation: Network reader received a driver loop-back request that specified another network reader subchannel address in the “FROM” adapter address (hdwfradr). This may result in a tight loop.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the address of the network reader subchannel.

Operator Response: None.

Programmer Response: Change the message proper to use a pre-allocated output subchannel for input through driver interface “DCONNECT” macro.

NXM mmm 662,E,08,License initialization has failed, rc= cccc.

Explanation: The H210IP license initialization has failed.

mmm

Specifies the NetEx module identifier.

cccc

Specifies the reason code for the failure:

9001 : expiring

9002 : expired

9003: expired – product non-functional

9004 : license open error

9005 : invalid key

9007 : no fingerprint

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: Verify that the software key is correctly installed. If the key is incorrect, contact Network Executive Software, Inc. to obtain the correct license key.

NXM mmm 663,E,08,License verification has failed, rc= cccc.

Explanation: The H210IP license initialization has failed.

mmm

Specifies the NetEx module identifier.

cccc

Specifies the reason code for the failure:

9001 : expiring

9002 : expired

9003: expired – product non-functional

9004: key file not found

9005 : invalid key

9007 : no fingerprint

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: Verify that the software key is correctly installed. If the key is incorrect, contact Network Executive Software, Inc. to obtain the correct license key.

NXM mmm 664,E,08,aaaaaaaaaaaaaaaaaaaaaaaaaaaa.

Explanation: Additional descriptive message that may be issued following message 663.

mmm

Specifies the NetEx module identifier.

aaaa

License error text

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: Verify that the software key is correctly installed. If the key is incorrect, contact Network Executive Software, Inc. to obtain the correct license key.

NXM mmm 665,E,08,No valid interface types are licensed.

Explanation: None of the interface (protocol) types (IP, HC, OSA) are enabled in the key.

mmm

Specifies the NetEx module identifier.

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: Verify that the software key is correctly installed. If the key is incorrect, contact Network Executive Software, Inc. to obtain the correct license key.

NXM mmm 666,E,08,Interface type aaa (nnnn) not licensed.

Explanation: The identified interface type (protocol) is not licensed for use. The identified interfaces are not brought online.

mmm

Specifies the NetEx module identifier.

aaaa

Specifies the type of the unlicensed adapter (HC (DX), IP (NESiGate), or OSA).

nnnn

Specifies the device address of the unlicensed adapter.

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: If messages are displayed for all types of interfaces (IP, OSA, and HC), H210IPZ may not be licensed for this CPU. In any case, contact Network Executive Software, Inc. to obtain the correct license.

NXM mmm 667,E,08,New key nn not compatible with old oo, will continue to use old key

Explanation: A key was attempted to be loaded, but it cannot be because it is not compatible with the old, current running key.

mmm

Specifies the NetEx module identifier.

nn

The new license bits

oo

The old license bits

License bits definitions:

80 : key invalid
40 : key expired
20 : HC enabled
10 : IP enabled
08 : HC4 enabled
04 : CTC enabled
02 : OSA enabled
01 : TNP enabled

Operator Response: Notify the person responsible for the NetEx installation.

Programmer Response: Verify that the software key is correctly installed. If the key is incorrect, contact Network Executive Software, Inc. to obtain the correct license key.

NXM mmm 668,I,08,Protocols set = pppppppp.

Explanation: Informational to identify which protocols are enabled in the key.

mmm

Specifies the NetEx module identifier.

pppppppp

The protocols that are enabled in the key.

NXM mmm 669,E,08,No OSAA init parm for NETADDR assoc with uuuu.

Explanation: There is a NetEx/IP OSA configuration error.

mmm

Specifies the NetEx module identifier.

uuuu

Specifies the NetEx/IP device number associated with the NETADDR.

Operator Response: Notify the person responsible for maintaining the NetEx/IP configuration. If this is a NetEx/IP OSA configuration, the most likely cause of this problem is the OSAA initialization statement is not contained in the NetEx/IP initialization file.

NXM mmm 700,I,08,Tref tttt decrementing: tubtrate=rrrrrrr, tubrmrrt=sssssss, tubskbs=pppppppp

Explanation: This is a protocol message, indicating a dynamic adjustment is being made. Transport is decreasing speed because the receiver is not keeping up.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

rrrrrrrr

Specifies the local current transfer rate.

sssssss

Specifies the remote receive rate.

pppppppp

Specifies the local current actual send rate.

Operator Response: None. This is an informational message only. If excessive messages are being seen, set the message level to a level greater than 8.

Programmer Response: None.

NXM mmm 701,l,08,Tref tttt decremented: tubtrate=rrrrrrrr, tubsrp=ssssssss, tubreqp=pppppppp

Explanation: This is a protocol message, indicating a dynamic adjustment is being made. Transport has decreased speed.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

rrrrrrrr

Specifies the new local transmit rate.

ssssssss

Specifies the sending rate adjustment percentage.

pppppppp

Specifies the rate equivalence percentage.

Operator Response: None. This is an informational message only. If excessive messages are being seen, set the message level to a level greater than 8.

Programmer Response: None.

NXM mmm 702,l,08,Tref tttt incrementing: tubtrate=rrrrrrrr, tubsrp=ssssssss, tubreqp=pppppppp

Explanation: This is a protocol message, indicating a dynamic adjustment is being made. Transport is increasing speed.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

rrrrrrrr

Specifies the new local transmit rate.

ssssssss

Specifies the sending rate adjustment percentage.

pppppppp

Specifies the rate equivalence percentage.

Operator Response: None. This is an informational message only. If excessive messages are being seen, set the message level to a level greater than 8.

Programmer Response: None.

NXM mmm 703,I,08,Tref tttt rate limited to rrrrrrrr

Explanation: This is a protocol message, indicating a dynamic adjustment is being made. Transport is increasing speed, but is rate limited by the NCT, global, or user specified rate.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

rrrrrrrr

Specifies the current transmit rate.

Operator Response: None. This is an informational message only. If excessive messages are being seen, set the message level to a level greater than 8.

Programmer Response: None.

NXM mmm 704,I,08,Tref tttt new delay (ddddddd) higher than prev (vvvvvvv), cutting rate to rrrrrrr, LSRML=lllllll

Explanation: This is a protocol message, indicating a dynamic adjustment is being made. Transport is decreasing transmit rate because it has detected a higher round trip delay.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

ddddddd

Specifies the new round trip delay.

vvvvvvv

Specifies the previous round trip delay.

rrrrrrrr

Specifies the new transmit rate.

lllllll

Specifies the local send rate max last period.

Operator Response: None. This is an informational message only. If excessive messages are being seen, set the message level to a level greater than 8.

Programmer Response: None.

NXM mmm 705,I,08,Tref tttt new delay (ddddddd) higher than prev (vvvvvvv), but LSRML=lllllll, so not cutting speed

Explanation: This is a protocol message, indicating a dynamic adjustment is being bypassed. Transport detected a higher delay, but will not decrease send rate because LSRML (local send rate max last period) is high enough.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

dddddddd

Specifies the new delay.

vvvvvvvv

Specifies the previous delay.

LSRML

Specifies the local send rate max last period.

Operator Response: None. This is an informational message only.

Programmer Response: None.

NXM mmm 706,I,08,Tref tttt new delay (dddddddd) higher than prev (vvvvvvvv), but send rate (ssssssss) < % of rcv rate (rrrrrrrr), so not cutting speed

Explanation: This is a protocol message, indicating a dynamic adjustment is being bypassed. Transport detected a higher delay, but will not decrease send rate because the remote receive rate is high enough.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

dddddddd

Specifies the new delay.

vvvvvvvv

Specifies the previous delay.

ssssssss

Specifies the current send rate.

rrrrrrrr

Specifies the current receive rate.

Operator Response: None. This is an informational message only.

Programmer Response: None.

NXM mmm 707,I,06,Tref tttt setting proceed to pppppppp: tubplrn=bbbbbbbb

Explanation: This is a type-4 protocol message, indicating a dynamic adjustment is being made. The data queue is full, so incoming LRN's (logical record numbers) greater than tubplrn will be discarded.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

PPPPPPPP

Specifies the new proceed count.

bbbbbbbb

Specifies the current transport proceed logical record number.

Operator Response: None. This is an informational message only.

Programmer Response: None.

NXM mmm 708,I,06,Tref tttt clearing proceed: tubplrn=bbbbbbb

Explanation: This is a type-4 protocol message, indicating a dynamic adjustment is being made. The data queue is no longer full, so all incoming blocks will now be accepted.

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

bbbbbbb

Specifies the current transport proceed logical record number.

Operator Response: None. This is an informational message only.

Programmer Response: None.

NXM mmm 709,E,08,Socket I/F Bind gna gggggggg to ip pppppppppppppppp failure: errno=eeeeeee

Explanation: Socket bind of local gna to IP address failure.

mmm

Specifies the NetEx module identifier.

gggggggg

Specifies the gna address that was attempted to be bound to the IP address.

pppppppppppppppp

Specifies the IP address that was attempted to be bound.

eeeeeee

Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 710,E,08,Socket I/F Close failure: errno=eeeeeee

Explanation: Socket close failure.

mmm

Specifies the NetEx module identifier.

eeeeeee

Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 711,E,08,Socket I/F Sendmsg failure: errno=eeeeeeee, gna=ggggggg, ip=pppppppppppppppppp

Explanation: Socket sendmsg failure.

mmm
Specifies the NetEx module identifier.

eeeeeeee
Specifies the errno value received.

gggggggg
Specifies the gna address that encountered the failure.

pppppppppppppppppp
Specifies the IP address that encountered the failure.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 712,E,08,Socket I/F Recvfrom failure: errno=eeeeeeee

Explanation: Socket RecvFrom failure.

mmm
Specifies the NetEx module identifier.

eeeeeeee
Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 713,E,08,Socket I/F GetHostByName failure: host=hhhhhhh

Explanation: Socket GetHostByName failure.

mmm
Specifies the NetEx module identifier.

hhhhhhh
Specifies the name of the Netex host name (ntx0000uuss).

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received. Likely resolution is to add the ntx0000uuss hostname to DNS.

NXM mmm 714,E,08,Socket I/F GetSockOpt failure: errno=eeeeeeee

Explanation: Socket GetSockOpt failure.

mmm
Specifies the NetEx module identifier.

eeeeeeee

Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 715,E,08,Socket I/F SetSockOpt failure: errno=eeeeeeee

Explanation: Socket SetSockOpt failure.

mmm

Specifies the NetEx module identifier.

eeeeeeee

Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received.

NXM mmm 716,I,08,Socket I/F GetHostByName resolved host=hhhhhhh, ip=pppppppp

Explanation: Socket GetHostByName resolved the host name to an IP address.

mmm

Specifies the NetEx module identifier.

hhhhhhh

Specifies the name of the Netex host name (ntx0000uuss).

pppppppppppppppp

Specifies the IP address to which the Netex host name was resolved.

Operator Response: None.

Programmer Response: None.

NXM mmm 717,I,06,Tref tttt DataQ lrn llllll not next for user aaaaaaa

Explanation:

mmm

Specifies the NetEx module identifier.

tttt

Specifies the transport reference number.

llllll

Specifies the out-of-sequence Logical Record Number.

aaaaaaa

Specifies the Netex user identifier.

Operator Response: None.

Programmer Response: None.

NXM mmm 718,E,08,Socket I/F Sendmsg failure : no gna to ip mapping, gna=gggggggg

Explanation: Socket Sendmsg failure.

mmm

Specifies the NetEx module identifier.

gggggggg

Specifies the gna address that encountered the failure.

pppppppppppppppppp

Specifies the IP address that encountered the failure.

Operator Response: Report this problem to your system administrator.

Programmer Response: Use the 'SET IP uuss a.b.c.d' initialization parameter (after ENDINI1), or add NTX0000UUSS mapping to IP address in DNS.

NXM mmm 719,E,08,Socket I/F Recvfrom failure: bad netex hdr

Explanation: Socket Recvfrom failure because of an invalid received Netex header.

mmm

Specifies the NetEx module identifier.

Operator Response: Report this problem to your system administrator.

Programmer Response: Report this problem to Network Executive Software.

NXM mmm 720,I,08,Socket I/F Bind gna gggggggg to ip ppppppppppppp

Explanation: Socket Bind of local gna to IP address successful.

mmm

Specifies the NetEx module identifier.

gggggggg

Specifies the gna address that was bound to the IP address.

pppppppppppppppppp

Specifies the IP address that was bound to the local gna.

Operator Response: None.

Programmer Response: None.

NXM mmm 721,E,08,Socket I/F PTON failure: errno=eeeeeee

Explanation: The IBM EZASMI PTON call returned with an error. PTON converts an IP address string to binary.

mmm

Specifies the NetEx module identifier.

eeeeeee

Specifies the errno value received.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the "*z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference*" for a description of the particular **errno** received. Report this problem to Network Executive Software.

NXM mmm 722,E,08,Socket I/F NTOP failure: errno=eeeeeeee, ip=pppppppppppppppp

Explanation: The IBM EZASMI NTOP call returned with an error. NTOP converts a binary IP address to a string.

mmm
Specifies the NetEx module identifier.

eeeeeeee
Specifies the errno value received.

pppppppppppppppp
Specifies the IP address that encountered the failure.

Operator Response: Report this problem to your system administrator.

Programmer Response: Refer to the “z/OS Communications Server IP Sockets Application Programming Interface Guide and Reference” for a description of the particular **errno** received. Report this problem to Network Executive Software.

NXM mmm 723,E,08,Socket I/F Bind failure: no local gna to ip mapping, gna=ggggggggg

Explanation: Socket Bind failure.

mmm
Specifies the NetEx module identifier.

ggggggggg
Specifies the gna address that encountered the failure.

Operator Response: Report this problem to your system administrator.

Programmer Response: Use the ‘SET IP uuss a.b.c.d’ initialization parameter (after ENDINI1), or add NTX0000UUSS mapping to IP address in DNS.

NXM mmm 724,E,08,TCP/IP has not started, errno=eeeeee, OSA adapters will stay offline

Explanation: There are one or more OSA adapters defined to Netex, but TCP/IP is not running. .

mmm
Specifies the NetEx module identifier.

eeeeee
Specifies the errno encountered while attempting to initialize communications with TCP/IP using INITAPI.

Operator Response: Report this problem to your system administrator.

NXM mmm 725,E,08,Error opening INTRDR to submit TNPJOB

Explanation: Netex encountered an error opening INTRDR in order to submit the TNPJOB.

mmm
Specifies the NetEx module identifier.

Operator Response: Notify the person responsible for the Netex installation.

NXM mmm 726,E,08,Error opening TNPJOB

Explanation: Netex encountered an error opening the TNPJOB to be submitted.

mmm

Specifies the NetEx module identifier.

Operator Response: Notify the person responsible for the Netex installation

NXM mmm 727,E,08,TNPJOB line length (IIII) is > 80

Explanation: The TNPJOB to be submitted has a maximum line length > 80.

mmm

Specifies the NetEx module identifier.

IIII

Specifies the maximum line length in the TNPJOB.

Operator Response: Notify the person responsible for the Netex installation

NXM mmm 728,E,08,TNPJOB I/O error

Explanation: Netex received an I/O error attempting to read the TNPJOB.

mmm

Specifies the NetEx module identifier.

Operator Response: Notify the person responsible for the Netex installation

NXM mmm 729,I,08,No OSA adapters defined = no IP connectivity

Explanation: No OSA adapters are defined to Netex, therefore Netex will not have IP connectivity and commands such as 'd ip', 'set ip', and 'clear ip' do not make sense.

mmm

Specifies the NetEx module identifier.

Operator Response: Notify the person responsible for the Netex installation

NXM mmm 730,I,08,Waiting for TCP/IP to start, errno = eeeee, (nn)

Explanation: There are one or more OSA adapters defined to Netex, but TCP/IP is not running. Netex will wait up to 2 minutes for TCP/IP to start .

mmm

Specifies the NetEx module identifier.

eeee

Specifies the errno encountered while attempting to initialize communications with TCP/IP using INITAPI.

nn

Specifies the number of attempts to communicate with TCP/IP so far.

Operator Response: Report this problem to your system administrator

NXM mmm 750E,08,User aaaaaaaa nref nnnnn, req rrrr failed stat ssss

Explanation: The user Netex request type indicated by rrrr for nref nnnn failed with an nrbstat code of ssss. Status code ssss will be returned to the application.

mmm

Specifies the NetEx module identifier

aaaaaaa

Specifies the jobname of the Netex application receiving the error

nnnn

Specifies the n-ref of the NetEx session of this job

rrrr

Specifies the request code type of the failing NetEx request

ssss

Specifies the NRBSTAT code (return code) of the failing NetEx request

Operator Response: None

Programmer Response: None

NXMINI700I 1ST CROSS-MEMORY TERMINATION

Explanation: There are two separate calls made to NXMXMETM to terminate cross-memory availability. This message indicates the first call to NXMXMETM has completed successfully.

NXMINI705I NITS DEQUEUED

Explanation: This message should not appear.

NOTE: This message may be activated sometime in the future.

NXMINI710I TERMINATION WAITING FOR SRBS

Explanation: Termination processing will cycle through the NetEx dispatcher module a certain number of times waiting for NXMDIS-generated disconnect processing to terminate established sessions. This message indicates that at the end of a cycle, some SRB(s) scheduled to a user(s) address-space had not completed execution.

NXMINI715I TABLE-DRIVEN TERMINATION DONE

Explanation: This message indicates that the NetEx internal termination routines have all been executed successfully.

NXMINI720I 2ND CROSS-MEMORY TERMINATION

Explanation: This message indicates the second call to NXMXMETM has completed successfully.

NXMINI725I ESTAE BEING CANCELED

Explanation: This message indicates the ESTAE for the main NetEx TCB is going to be canceled.

NXMINI730I NETEX WAITING 15 SECONDS FOR NXMLOGOF

Explanation: This message indicates that NetEx will wait 15 seconds to ensure that the print function termination processing has entirely completed.

Print Function Messages

NXMLOGIN1E LOGBLOCK GETMAIN FAILURE

Explanation: NXMLOGIN (print function initialization module; called from NXMINI) was unable to GETMAIN storage for the LOGBLOCK. The print function will not be available until NetEx is restarted.

NXMLOGIN2W NETEX LOG PRINT FUNCTION NOT AVAILABLE

Explanation: This message notifies the System Operator that the print function will not be available for this execution of NETEX.

NXMLOGIN3W IDENTIFY SVC FAILURE

Explanation: NXMLOGIN issues the IDENTIFY SVC for entry-Point NXMLOGPR. This message indicates that for whatever reason, the IDENTIFY failed. The print function will not be available until NETEX is restarted.

NXMLOGIN4I PRINT FUNCTION INITIALIZATION COMPLETE

Explanation: This message indicates that NXMLOGIN has COMPLETED processing, and is returning to NXMINI.

NXMLOGCN1W NETEX LOG PRINT FUNCTION NOT AVAILABLE

Explanation: NXMLOGCN (print function control) has determined that an error occurred previously within initialization module NXMLOGIN, and as a result, the print function will not be available until NETEX is restarted.

NXMLOGCN2E NETEX LOG PRINT FUNCTION ALREADY STARTED

Explanation: This message is issued in response to the “SET PRINT ON” operator command when the print function is already operational. No further action is taken.

NXMLOGCN3W ATTACH SVC FAILURE

Explanation: The ATTACH SVC for the print function subtask failed. The print function will not be available until NetEx is restarted.

NXMLOGCN4W SUB-TASK INITIALIZATION FAILURE

Explanation: NXMLOGCN will WAIT until the subtask segment NXMLOGPR indicates through a POST-code returned in the ECB that it has completed initialization. This message indicates that NXMLOGCN has been informed that NXMLOGPR initialization has failed. The print function will not be available until NetEx is restarted.

NXMLOGOF1E NETEX LOG PRINT FUNCTION NOT ACTIVE

Explanation: NXMLOGOF (print function shut-down) has determined that the print function is not currently active and, therefore, cannot be shut-down.

NXMLOGOF2I PRINT FUNCTION BEING SHUTDOWN

Explanation: This message notifies the System Operator that print function shut-down processing has commenced.

NXMLOGOF3I SHUTDOWN REQUESTER TERMINATING

Explanation: This message indicates that NXMLOGOF has completed processing.

NXMLOGPR1E NTXLOG DCB OPEN FAILURE

Explanation: NXMLOGPR (print function subtask) attempted to OPEN the NTXLOG DCB as part of its initialization processing and it failed. The print function will not be available until NetEx is restarted.

NXMLOGPR2I PRINT FUNCTION SUBTASK INITIALIZED

Explanation: This message indicates the NXMLOGPR initialization processing has completed successfully.

NXMLOGPR3W PRINT FUNCTION SUBTASK TERMINATING WITH ERRORS

Explanation: This message indicates that the subtask has completed termination processing, but has encountered errors during that processing.

NXMLOGPR4I PRINT FUNCTION SUBTASK TERMINATING NORMALLY

Explanation: This message indicates that the subtask has completed termination processing without encountering any errors during that processing.

NXMLOGES1W PRINT SUBTASK ESTAE ENTERED

Explanation: The subtask directly establishes its own ESTAE during initialization processing. This message indicates that the subtask ESTAE NXMLOGES has commenced processing.

NXMLOGES2I PRINT SUBTASK ESTAE COMPLETED

Explanation: This message indicates that the subtask ESTAE has completed clean-up processing.

NXMLOGTX1I PRINT SUBTASK TERMINATION EXIT ENTERED

Explanation: The subtask is attached (ATTACH) specifying the "EXTR=NXMLOGTX" parameter. This requests that the system invoke the NXMLOGTX program segment (through an IRB) when the subtask exits to the system. This message indicates that the subtask termination exit NXMLOGTX has commenced processing.

NXMLOGTX2I NTXLOG DCB CLOSE SUCCESSFUL

Explanation: The termination exit will CLOSE the NTXLOG DCB (if open). This message indicates that the CLOSE SVC completed successfully.

NXMLOGTX3E NTXLOG DCB CLOSE FAILURE

Explanation: This message indicates that the CLOSE SVC did not complete successfully.

NXMLOGTX4F PRINT SU8TASK TCB DETACH FAILED ABEND

Explanation: The termination exit will DETACH the subtask TCB. This message indicates that the DETACH SVC did not complete successfully, and that the termination exit will issue the ABEND SVC. This will result in the NetEx main task terminating.

NXMLOGTX5I PRINT SUBTASK TCB DETACH SUCCESSFUL

Explanation: This message indicates that the DETACH SVC completed successfully.

NXMLOGTX6I PRINT SUBTASK TERMINATION EXIT COMPLETED

Explanation: This message indicates that the subtask termination exit has completed clean-up processing.

NRBSTAT Error Codes

General

This section describes NRBSTAT error codes in the following sections:

- NRBSTAT and NRBIND
- NRBSTAT Error Code Format
- General and User Interface Errors
- Special NRBSTAT Errors for H210 NETEX
- Driver Errors
- Transport Errors
- Session Errors
- Network Errors

NRBSTAT and NRBIND

When a NetEx request is issued, the results of the request are returned in one or both of two fields, NRBSTAT and NRBIND. These fields are located at the beginning of the NRB to make their subsequent examination by high level language programs a simpler matter.

NRBSTAT

Indicates whether an operation is in progress. It also indicates whether the operation completed successfully. 0000 in the NRBSTAT field means successful completion of NetEx request. -1 means that request is still in progress. A positive value indicates something abnormal has occurred.

NRBIND

Indicates the type of information that arrived as the result of a read-type command (OFFER or READ).

NRBSTAT Error Code Format

When the NetEx user interface accepts an operation, the value of NRBSTAT is set to the local value of -1. This is an “operation in progress” flag for all implementations.

If an operation completes successfully, NRBSTAT returns as all zeroes. If a read-type command (SOFFER, SREAD, SSTATUS, TOFFER, TREAD, TSTATUS) was issued, then an “indication” is set in NRBIND.

If the operation did not complete successfully, then NRBSTAT contains a standard error code. NRBSTAT is a decimal number that may be as large as $2^{15}-1$ (32,767). NRBSTAT does not use the 2^{16} bit. The 2^{16} bit remains the “in progress” flag for 16 bit machines. The thousands digit denotes the origin of the error; the low order three digits specifically identify the error type. The codes for error origin are as follows:

0xxx

Indicates NetEx general. Errors detected by the user interface that prohibit proper processing of the command. See “General and User Interface Errors” on page 92 for a full description of these errors.

09xx

Reserved for implementation dependent errors in the user interface. See “Special NRBSTAT Errors for H210 NetEx” on page 94 for a full description of these errors.

1xxx

Indicates driver level errors. See “Driver Errors” on page 94 for a full description of these errors.

2xxx

Indicates transport level errors. See “Transport Errors” on page 96 for a full description of these errors.

3xxx

Indicates session level errors. See “Session Errors” on page 98 for a full description of these errors.

4xxx

Indicates network level errors. See “Network Errors” on page 102 for a full description of these errors.

5xxx-8xxx

Reserved for future NetEx functions.

90xx

Reserved for errors returned by User Exits on the local host.

91xx

Reserved for errors returned by User Exits on a remote host during the connection process.

9200-32767

Reserved.

0xxx and 90xx errors can be returned to any user program that accesses NetEx services. Normally, an application that accesses services at the session level only receives those errors (3xxx) related to session services. However, NetEx works on the following principle: if a level elects to abort the user's request based on an error returned by a lower level of software, NetEx will pass the error code up to the user. For example, a driver might report a "power off" or "not operational" status to the transport in the event of an adapter failure. If the transport decides this error type should cause loss of communications, then NetEx returns the 1xxx error to the user along with a disconnect indication in NRBIND when the next user read command is issued.

The second digit describes the type of errors in rather loose categories:

x0xx

NetEx general or inconsistent NRB formats.

x1xx

Specification errors in parameters passed to a particular protocol level.

x2xx

Hardware errors.

x3xx

Requests out of sequence and read time-outs.

x4xx

NetEx initiated disconnect errors.

x5xx

Errors during connection.

The error codes at each level have been made as common as possible. Thus a 2103 error in transport would have substantially the same meaning as a 3103 error in session, and a 1361 error would not be defined at (for example) the Driver level if a 3361 error meant something entirely different at the session level.

Finally, some errors cause the loss of the connection or result in a connection not being established in the first place. Any status code that implies that the connection is no longer useful has a 6 (disconnect indication) returned in NRBSTAT. Any attempts to issue further requests to that connection cause a x100 (no NREF) error to be returned. All errors that result in loss of the connection and a disconnect indication in NRBIND are indicated by an asterisk (*) following the error code number.

A 0000 in the NRBSTAT field means successful completion of NetEx request. A -1 means that request is still in progress.

The following subsections describe the errors in numerical order starting with general NetEx errors, followed by operating system dependent errors, driver, transport, and session level errors.

General and User Interface Errors

The errors described in this section are general NetEx errors or user interface errors. ABEND uxxx reflects the NRB status in the user abend code.

0000

Explanation: Successful completion.

0001

Explanation: A read-type operation completed normally within NetEx, but the buffer provided by the user was not large enough to hold the data. NRBLLEN and NRBUBIT reflect the amount of data the other party intended to send; however, the amount of data moved to the user's program was only the amount of addressable units specified in NRBBUFL. NRBIND specifies the type of data sent to the user. Requests affected: SREAD, SOFFER, SSTATUS, TREAD, TOFFER, TSTATUS, DREAD. The status of the connection is not affected.

0002

Explanation: NRBBUFL and NRBBUFA do not specify a block of storage that fits entirely within the user's addressable memory. The operation is suppressed. All requests are affected. The status of the connection is unaffected. The NRB and the buffer address must be in the same storage key as the PSW.

NOTE: ABEND u0002 - NRB is not valid.

0003

Explanation: On a write type operation, the unused bit count (NRBUBIT) specifies a larger number of bits than are in the machine's word (addressable unit size). The operation is suppressed; the status of the connection is not affected.

0004

Explanation: The request code (NRBREQ) is not valid. The operation is ignored, and the status of the connection specified by NRBNREF is not affected.

0005

Explanation: The buffer size specified (in NRBBUFL for read and NRBLLEN for a write) exceeds an implementation defined NetEx maximum. The operation is suppressed. The status of the connection is not affected.

0006

Explanation: The buffer size specified (in NRBPROTL for READs and WRITEs) exceeds an implementation defined NetEx maximum. The operation is suppressed. The status of the connection is not affected.

0011

Explanation: A read-type operation completed normally within NetEx, but the ODATA buffer provided by the user was not large enough to hold the data. NRBPROTL reflects the amount given to the user. NRBIND specifies the type of data sent to the user. Requests affected: x-OFFER, x-READ. The status of the connection is not affected.

0012

Explanation: NRBPROTL and NRBPROTA do not specify a block of storage that fits entirely within the user's addressable memory. The operation is suppressed. All requests are affected. The status of the connection is unaffected.

0021

Explanation: A read-type operation completed normally within NetEx, but both the ODATA and PDATA buffers were too small to hold the incoming data. NRBLLEN/NRBUBIT reflects the amount of data the other party intended to send; however, the amount of data moved to the user's program was only the amount of addressable units originally specified in NRBLLEN and NRBPOTL. NRBIND specifies the type of data sent to the user. Requests affected: x-OFFER, x-READ. The status of the connection not affected.

0100*

Explanation: The user interface detected that the NREF for that level of service is not currently in use by the application program. Probable cause is a bad CONNECT, OFFER, or ASSIGN or failure to handle an incoming disconnect.

0310

Explanation: The user has attempted to re-use an NRB before a previous request issued with that NRB has completed. The request is rejected. When the original request issued with that NRB completes, then the NRB is once more updated with the status of that request.

NOTE: ABEND u0310 - completion means the NRBSTAT field contained a 0310 status at the time of the request.

0500*

Explanation: NetEx is not currently running on the local computer. The local computer operator must start NetEx. This code is issued by the NetEx user interface when it determines that NetEx is unavailable.

0503*

Explanation: A OFFER, CONNECT, or ASSIGN request has resulted in the number of connections outstanding for the caller exceeding an implementation defined maximum. The new connection request is rejected.

0504*

Explanation: The user program is not authorized to use the user interface facilities needed to communicate with NetEx. No use of NetEx is possible until the user gains the appropriate authorization.

0505*

Explanation: NetEx is currently being drained by the computer operator in preparation for a NetEx shutdown. No new OFFER, CONNECT, or ASSIGN requests are accepted. The request is rejected. The status of already existing connections are not affected.

0506

Explanation: NetEx internally could not assign an NRB to this wait request.

0511*

Explanation: An OFFER, CONNECT, or ASSIGN request has would result in the total number of system-wide connections to NetEx exceeding an implementation defined maximum. The new connection request is rejected.

0512*

Explanation: The NetEx program is aborting execution due either to internal NetEx software problems or cancellation by the computer operator. No further traffic with NetEx is possible. This error is issued to complete a request that was issued when NetEx was running normally.

Special NRBSTAT Errors for H210 NetEx

0610

Explanation: The Netex request is rejected because there is no current operating key.

0611

Explanation: The Netex request is rejected because the current key is invalid.

0612

Explanation: The Netex request is rejected because the current key is expired.

0613

Explanation: The Netex request is rejected because it is from a TNP application.

0900

Explanation: The number of concurrent NetEx requests has exceeded the number of available NetEx NRBs. The request can be retried at a later time.

0901

Explanation: The number of concurrent NetEx requests has exceeded the number of available NetEx SWAIT blocks. The request can be tried again at a later time.

Driver Errors

1001

Explanation: Too much data. A Read completed and more data was read in than expected. The extra data is truncated.

1005

Explanation: PDATA length on a DWRITE request is greater than a host-specified limit. The request is rejected.

1100*

Explanation: The DREF specified by NRBNREF is not in use or is not owned by this application program. The request is rejected. The status of other connections owned by this application remain unchanged. Check to make sure that the DREF specified is within the range of subchannels defined to NetEx in the PAM or ROOTGEN.

1101

Explanation: The DATAMODE field of a NetEx format network message is not valid for this particular host. DWRITE for NetEx format messages are affected. The driver assignment remains in effect.

1102

Explanation: The specified value of the associated data bit in the hardware message area does not match the presence or absence of associated data as specified in NRBLLEN. DWRITE is affected. The driver assignment remains in effect. Both NetEx format and arbitrary format network messages are affected.

1103

Explanation: The specified length of the message proper does not fit within the HYPERchannel imposed limits of 8 to 64 bytes inclusive. Only DWRITES may obtain this response. The driver assignment remains in effect. Both NetEx format and arbitrary format network messages are affected.

- 1104**
Explanation: Checksum on an incoming driver level message is not correct. The message and data received is returned to the DREAD caller along with the error code but the data should, of course, be considered suspect. The status of the driver assignment is not affected.
- 1105**
Explanation: The length of the associated data was less than or substantially different from the specified length in the message proper. This comparison is performed after adjustment for incoming A/D modes. Sufficient slop in this comparison is provided to accommodate those machines that must send information in multiples of the word size.
- 1107**
Explanation: Remote NetEx presented a non-identifiable message. The status of the connection is unpredictable.
- 1108**
Explanation: On a DWRITE, the TO adapter is the same as the FROM adapter, but the Driver user block for the TO DREF does not exist.
- 1200**
Explanation: "Power off," "not operational," or a similar indication of local adapter unavailability was discovered when physical I/O was issued. The status of the assignment is not affected, but it is unlikely that driver communications can continue without operator intervention.
- 1201**
Explanation: The network adapter has reported an error in processing the DREAD or DWRITE request. The adapter model dependent detailed status may be obtained by issuing a DSTATUS function.
- 1202**
Explanation: Halt successful. Upon completion of a Read, a Disconnect was processed for that connection.
- 1203**
Explanation: A CC3 "not available" was presented in response to a DWRITE or DREAD request.
- 1204**
Explanation: A bad channel status was presented in response to a DWRITE or DREAD request.
- 1300**
Explanation: A DREAD or DCONNECT request timed out before any data was received on the network. The time value used for the timeout was in NRBTIME. No data was received. The status of the driver connection is not affected.
- 1304**
Explanation: The number of DWRITE requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The DWRITE request is rejected. The status of the connection and the previous DWRITE requests remains unchanged.
- 1305**
Explanation: The number of DREAD requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The DREAD request is rejected. The status of the connection and the previous DREAD request remains unchanged.
- 1306**
Explanation: DREAD or DWRITE when the connection is in disconnect mode.

1400*

Explanation: The remote NetEx encountered a non-recoverable driver-read error. The connection is terminated. The probable cause is a physical adapter error or a bad checksum in the message proper.

1501*

Explanation: A specific DREF requested by the TASSIGN or DASSIGN is already in use. If a non-specific request was made, all driver paths are in use.

1503*

Explanation: The number of user driver attaches permitted by NetEx has been exceeded. Driver service cannot be offered at this time. The DASSIGN is rejected.

1504*

Explanation: Driver service is not directly available to applications programs. This service can only be made available by the installation systems programmer.

1505*

Explanation: NetEx is currently being “drained” by the computer operator. No new Driver service (DASSIGN) requests are being accepted.

1506*

Explanation: The specific DREF (adapter address) requested by a DASSIGN does not exist on this local host.

1507*

Explanation: The specific DREF (adapter address) exists on the local host, but the NetEx operator has drained that adapter so no new requests for driver service (DASSIGN requests) can be accepted on that adapter.

1509*

Explanation: The specified value of NRBBLKO exceeds an installation or implementation defined maximum. The ASSIGN request is rejected.

1510*

Explanation: The specified value of NRBBLKI exceeds an installation or implementation defined maximum. The ASSIGN request is rejected.

Transport Errors

2004

Explanation: Invalid request type.

2005

Explanation: During a WRITE operation, the length of the buffer as specified by NRBLLEN exceeds the maximum buffer size found in NRBBLKO. The WRITE operation is rejected. The connection remains outstanding.

2006

Explanation: The length of the PDATA sent on a TCONNECT, TCONFIRM, or TDISCONNECT is greater than the maximum allowed. The request is rejected.

2007

Explanation: The length of the ODATA sent on any write type request is greater than the maximum allowed. The request is rejected.

2100*

Explanation: The TREF specified by NRBNREF is not in use or is not owned by this application program. The request is rejected. The status of other connections owned by this application remain unchanged.

2101

Explanation: The DATAMODE field in the NRB is not valid for the local host. The write operation (SWRITE, TWRITE, SCLOSE, TCLOSE, SCONNECT, TCONNECT) is suppressed. The connection (if previously established) remains in effect.

2300

Explanation: The timeout value associated with a TREAD request resulted in a request timing out before any data or other indication was received from the corresponding application.

2301

Explanation: A TCONNECT, TWRITE, TCONFIRM, TDISCONNECT, or TCLOSE has been issued out of sequence. The request is rejected. The status of the connection remains unchanged.

2302

Explanation: A TOFFER or TREAD has been issued out of sequence. The request is rejected.

2303

Explanation: A TCONNECT request was issued prior to a request other than a TREAD to read the Confirm or Disconnect indication. The request is rejected. NetEx continues to wait for the TREAD request.

2304

Explanation: The number of TWRITE requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The TWRITE request is rejected. The status of the connection and the previous TWRITE requests remains unchanged.

2305

Explanation: The number of TREAD requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The TREAD request is rejected. The status of the connection and the previous TREAD requests remain unchanged.

2306

Explanation: A TWRITE request has been issued to a transport connection that is in the process of servicing a remote caller or NetEx initiated Disconnect. A Disconnect Indication is pending from NetEx.

2307*

Explanation: A TREAD request has been issued to a transport connection that is in the process of servicing a remote caller or NetEx initiated Disconnect. A Disconnect Indication is pending from NetEx.

2309*

Explanation: A TREAD request is completing with a CLOSED indication because the transport has gone into CLOSED mode.

2400*

Explanation: No response has been received from the remote NetEx for a period of elapsed time (DEADTO) specified by the installation systems programmer. The connection is terminated. A Disconnect Indication is found in NRBIND.

2401*

Explanation: The remote application has failed to issue a read request to NetEx for a period of elapsed time (READTO) specified by the installation systems programmer. The connection is terminated for both parties.

2402*

Explanation: The remote application has failed to issue a TREAD request for a period of elapsed time (READTO) specified by the installation systems programmer on the remote host. The connection is terminated. A Disconnect Indication is found in NRBIND.

2403*

Explanation: The remote application exited without issuing an explicit Disconnect back to the local application. The connection is terminated. A Disconnect Indication is found in NRBIND.

2500*

Explanation: A connect message was repeatedly sent to the remote host in response to a previous TCONNECT request, but no response was received for a period of elapsed time (CONTO) specified by the installation systems programmer.

2501*

Explanation: A specific TREF requested by the TASSIGN is already in use.

2503*

Explanation: The number of user transport connections permitted by NetEx has been exceeded. Transport service cannot be offered at this time. The TASSIGN is rejected.

2504*

Explanation: Transport service is not directly available to applications programs. This service can be made available only by the installation systems programmer.

2505*

Explanation: NetEx is currently being “drained” by the computer operator. No new requests for Transport services (TASSIGN requests) are being accepted.

2506*

Explanation: The Physical Address Map passed to Transport for a connection is not valid. If returned from a SCONNECT request, it is due to an incorrectly generated Network Configuration list.

2507

Explanation: The Physical Address Map passed to trap transport for a connection contains a halted adapter.

2509*

Explanation: The specified value of NRBBLKO exceeds an installation or implementation defined maximum. The connection request is rejected.

2510*

Explanation: The specified value of NRBBLKI exceeds an installation or implementation defined maximum. The connection request is rejected.

2511*

Explanation: Invalid protocol type (class of service)

Session Errors

3004

Explanation: An invalid session request type has been issued.

- 3005**
Explanation: During a WRITE operation, the length of the buffer as specified by NRBLLEN exceeds the maximum buffer size found in NRBBLKO. The WRITE operation is rejected. The connection remains outstanding.
- 3006**
Explanation: The length of PDATA sent on a CONNECT, CONFIRM, or DISCONNECT is greater than the maximum allowed. The request is rejected.
- 3100***
Explanation: The SREF specified by NRBNREF is not in use or is not owned by this application program. The request is rejected. The status of other connections owned by this application remain unchanged. Possibly caused by an earlier 3401 status presented by NetEx.
- 3101**
Explanation: On a SWRITE request, a DATAMODE was specified that is not supported.
- 3106**
Explanation: On any write request, the field NRBUBIT contained an invalid quantity. The status of the connection remains unchanged.
- 3300**
Explanation: A SREAD or SOFFER request timed out before a response was received on the network. If the timed request is an SREAD, the status of the connection was not affected. If an SOFFER times out, then the connection does not take place.
- 3301**
Explanation: SCONNECT, SOFFER, or SCONFIRM has been issued for a connection that is already fully established. The request is rejected. The status of the connections remains unchanged. NXMUSRPC checks the first two.
- 3302**
Explanation: A connect indication was received by a preceding SOFFER, and a request other than SCONFIRM or SDISCONNECT was issued. The request is rejected. NetEx continues to wait for the confirm or disconnect request.
- 3303**
Explanation: An SCONNECT request was previously issued. The only requests allowed after the SCONNECT are SDISCONNECT to disconnect, or SREAD to read the Confirm or Disconnect indication. The request is rejected. NetEx continues to wait for the SREAD or SDISCONNECT request. Wait for SREAD or SDISCONNECT.
- 3304**
Explanation: The number of SWRITE requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The SWRITE request is rejected. The status of the connection and the previous SWRITE requests remain unchanged.
- 3305**
Explanation: The number of SREAD requests outstanding against a single connection exceeds an implementation defined maximum (usually one). The SREAD request is rejected. The status of the connection and the previous SREAD requests remain unchanged.
- 3306**
Explanation: A SWRITE request has been issued to a session connection that is in the process of servicing a remote caller or NetEx initiated Disconnect. A Disconnect Indication is pending from NetEx.

3307

Explanation: A SREAD request has been issued to a session connection that is in the process of servicing a remote caller or NetEx initiated Disconnect. A Disconnect Indication is pending from NetEx.

3308

Explanation: A write type request (other than SDISCONNECT) has been issued following an SCLOSE request.

3310

Explanation: A session level read time-out has occurred. Data received during this session was discarded because the application did not issue a read request for a period of time greater than the data time-out period (30 seconds). The session is terminated.

3401*

Explanation: The remote application has failed to issue a read request to NetEx for a period of elapsed time (READTO) specified by the installation systems programmer. The connection is terminated for both parties.

3402*

Explanation: The remote application has failed to issue a SREAD request for a period of elapsed time (READTO) specified by the installation systems programmer on the remote host. The connection is terminated. A Disconnect Indication is found in NRBIND.

3403*

Explanation: The remote application exited without issuing an explicit Disconnect back to the local application. The connection is terminated. A Disconnect Indication is found in NRBIND.

3404

Explanation: The session has been disconnected because the KILL NETEX command was issued for the local or remote NetEx.

3410*

Explanation: A data buffer address was not supplied in the SRB for a SCONNECT request.

3421

Explanation: A HALT SREF operator command was issued against the remote session.

3422*

Explanation: A HALT SREF operator command was issued against this session.

3500*

Explanation: A connect message was repeatedly sent to the remote host in response to a previous TCONNECT request, but no response was received for a period of elapsed time (CONTO) specified by the installation systems programmer. Probable cause is the absence of the NetEx software on the remote host. The SCONNECT terminates with a Disconnect Indication in NRBIND.

3501*

Explanation: The PNAME specified is not OFFERed on the HOST specified during the SCONNECT. The SCONNECT terminates with a Disconnect Indication in NRBIND.

3502*

Explanation: The PNAME specified is not OFFERed on the HOST specified during the SCONNECT. However, a session that was previously established by OFFERing the requested PNAME is now in progress on the remote machine. If the remote application elects to re-OFFER the connection in the future the service might be available at that time. (In other words, the remote application is "busy.")

- 3503***
Explanation: The maximum number of user session connections permitted by NetEx has been exceeded. Session service cannot be offered at this time. The SCONNECT or SOFFER is rejected.
- 3504***
Explanation: Session service is not directly available to applications programs. This service can only be made available by the installation systems programmer.
- 3505***
Explanation: NetEx is currently being “drained” by the computer operator. No new requests for Session services (SCONNECT and SOFFER) are being accepted.
- 3506***
Explanation: The HOST specified in a SCONNECT request does not exist anywhere on the network generated by the installation systems programmer. The SCONNECT terminates with a Disconnect Indication in NRBIND.
- 3507***
Explanation: The HOST specified exists on the installation generated network configuration, but the local computer operator has specified that no session level connections take place with that particular host. The SCONNECT terminates with a Disconnect Indication in NRBIND.
- 3508***
Explanation: The HOST specified exists on the installation generated network configuration, but no communications path exists between the local host and the specified remote host. The SCONNECT terminates with a Disconnect Indication in NRBIND.
- 3509***
Explanation: The specified value of NRBLKO exceeds an installation or implementation defined maximum. The connection request is rejected.
- 3510***
Explanation: The specified value of NRBLKI exceeds an installation or implementation defined maximum. The connection request is rejected.
- 3511***
Explanation: The Class of Service requested is not currently implemented.
- 3512***
Explanation: Remote user was offered, but the adapter was unable to complete connection due to limitations on the number of connections supported.
- 3513***
Explanation: The host specified on an SCONNECT is not defined locally, and no response was received from the NetEx Administrator.
- 3522***
Explanation: NetEx was drained before this outstanding OFFER was complete.
- 3523***
Explanation: NetEx was DRAINED when a connect was received. This error is returned by the Session Manager to the connector.
- 3550***
Explanation: The local host specified on an SOFFER or SCONNECT does not exist in the NetEx Administrator’s NCT. The request is rejected at the Administrator.

3551*

Explanation: The remote application is not OFFERed at the Administrator (the remote host is in the Administrator's domain). The SCONNECT is rejected.

3552*

Explanation: The local host specified on an SOFFER or SCONNECT request is not in the NetEx Administrator's domain. The request is rejected.

3553*

Explanation: The Physical Address Map (PAM) sent along with an OFFER or CONNECT request to the Administrator does not match any PAM that the Administrator can generate. The request is rejected.

3908*

Explanation: A protocol error has occurred within the SPI (Session Protocol Information) given to the remote user. In other words, remote NetEx put a message on the network that was not understood by the local NetEx.

3909*

Explanation: A protocol error has occurred within the SPI (Session Protocol Information) given to local user. In other words, remote NetEx put a message on the network that was not understood by the local NetEx.

3915*

Explanation: A connection was attempted using a class specification that was not compatible with the class specified on an SOFFER. For example, a class 1 SOFFER is issued. A class 2 SCONNECT attempt fails when trying to establish the connection.

3920*

Explanation: Remote NetEx session manager encountered an error during the connect. Likely causes are a bad datamode or confirm-read timeout.

Network Errors

4004

Explanation: An undefined request type has been issued to Network service. Valid requests are: NCONNECT, NCONFIRM, NWRITE, NOFFER, NASSIGN, and NDISCONNECT.

4006

Explanation: The length of the PDATA sent on a NCONNECT, NCONFIRM, or NWRITE request is greater than the maximum allowed. The request is rejected.

4007

Explanation: The length of the ODATA sent on a NCONNECT, NCONFIRM, or NWRITE request is greater than the maximum allowed. The request is rejected.

4008

Explanation: An ODATA buffer address has not been provided on a NCONNECT, NCONFIRM, or NWRITE request. The request is rejected.

4100*

Explanation: The NREF specified by WRBNREF is not in use or is not owned by this application program. The request is rejected.

4101

Explanation: The DATAMODE field of a received NetEx network message is not valid for this particular host. Code conversion has not been done for this input message.

- 4102***
Explanation: The NREF requested for a specific NASSIGN is invalid. The request is rejected.
- 4301**
Explanation: A NCONNECT or NOFFER request has been issued out of sequence. The request is rejected.
- 4302**
Explanation: A NWRITE request has been issued out of sequence. The request is rejected.
- 4303**
Explanation: A NCONFIRM request has been issued out of sequence. The request is rejected.
- 4501***
Explanation: A specific NREF requested by the NASSIGN (NCONNECT or NOFFER for external users) is already in use.
- 4503***
Explanation: The number of network connections permitted by NetEx has been exceeded. Network page service is not available at this time.
- 4506**
Explanation: An NCONNECT request has been issued, but a PAM has not been supplied. The request is rejected.
- 4507**
Explanation: An NCONNECT request has been issued, but the PAM supplied contains a halted adapter.
- 4508**
Explanation: An NCONNECT request has been issued, but the PAM supplied contains a drained path.
- 4511***
Explanation: Invalid protocol type (class of service).
- 4521**
Explanation: An attempt was made to send PDATA through a one-way adapter.

Configuration Manager Messages

General

This section describes the configuration manager parser messages.

- First Pass Configuration Messages
- Second Pass Configuration Messages

First Pass Configuration Messages

The configuration manager parser displays the following list of warning messages during pass 1. These errors are not fatal. The configuration manager displays an error message and continues the parse. All messages except CONF001, CONF005, CONF006 and CONF029 set the NCT validation flag (ValidNCT) to FALSE. This flag is checked before accessing the NCT. The message, explanation, and action are discussed below. The actual value of the identifier replaces an identifier enclosed in single quotes (for example: "HOSTname").

CONF001I Parsing initiated

Explanation: This is only an informational message.

System Action: Display message and continue processing.

CONF002E Invalid configuration statement

Explanation: The Configuration Manager encountered an unrecognizable statement type. The invalid statement is displayed followed by the error message.

System Action: Ignore card and get next one.

CONF003E 'name' statement: 'label' encountered after LINK stmt: 'label'

Explanation: The Configuration Manager encountered a statement after a LINK statement. The order of these statements is wrong.

System Action: Ignore statement, free memory allocated to name, and get next card.

CONF004E TRUNK not previously defined

Explanation: The Configuration Manager encountered a Tx=label in an ADAPTER or LINK statement and the trunk referred to by the label has not been defined.

System Action: Ignore operand and scan for next one.

CONF005I Syntax check halted; the following not checked

Explanation: The Configuration Manager encountered an error. The statements following this message were not checked for errors.

System Action: Skip code until a key word is found. This is only a warning.

CONF006I Syntax check resumed; the previous stmt checked

Explanation: The Configuration Manager encountered a key word in the previous statement. The Configuration Manager checked the statement previous to this message for errors.

System Action: Inform user of code not checked. This is only a warning.

CONF007E Statement missing label: 'TRUNK | HOST | PORT'

Explanation: The label is missing from the TRUNK, HOST or PORT statement.

System Action: Ignore card and get next one.

CONF008E Invalid operand: 'operand'

Explanation: The Configuration Manager encountered an unrecognizable operand.

System Action: Ignore operand and get next one.

CONF009E Invalid network type: 'operand'

Explanation: The Configuration Manager encountered an unrecognizable network type in the LOCALNET statement.

System Action: Ignore statement and get next card.

CONF010E TYPE missing in LOCALNET statement: 'network name'

Explanation: The type operand was missing from the LOCALNET statement. It is required for all networks.

System Action: Free memory allocated to network and get next card.

CONF011E NETADDR missing in ADAPTER/LINK statement: 'label'

Explanation: The NETADDR operand is missing from the ADAPTER or LINK statement. It is required for all adapters/links.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF012E MODEL missing in ADAPTER/LINK statement: 'label'

Explanation: The MODEL operand is missing from the ADAPTER or LINK statement. It is required for all adapters/links.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF013E TRUNK missing from ADAPTER/LINK statement: 'label'

Explanation: A trunk operand is missing from the ADAPTER or LINK statement. At least one must be specified (and not more than 4). It is required for all HYPERchannel adapters/links.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF014E CHANADDR missing in ADAPTER statement: 'label'

Explanation: The CHANADDR operand is missing from the ADAPTER statement. It is required for A22x adapters.

System Action: Ignore statement, free memory allocated to adapter and get next card.

CONF015E RATE invalid in PORT statement: 'rate'

Explanation: An invalid rate was specified in a PORT statement.

System Action: Ignore statement, free memory allocated and get next card.

CONF016E SMGDREF: 'hexvalue' must have rightmost 4 bits = PORT: 'value'

Explanation: The Configuration Manager encountered an a DREF that has the value hex-value. The low-order 4 bits must equal the port number value.

System Action: Ignore statement, free memory allocated and get next card.

CONF017E DEST missing in PORT statement: 'label'

Explanation: The DEST operand is missing from the PORT statement. It is required for all adapters.

System Action: Ignore statement, free memory allocated to port and get next card.

CONF018E RATE missing in PORT statement: 'label'

Explanation: The RATE operand is missing from the PORT statement. It is required for Axxx and B900 adapters.

System Action: Ignore statement, free memory allocated to port and get next card.

CONF019E Invalid adapter model: 'model'

Explanation: The MODEL operand specified an invalid adapter model number in the ADAPTER or LINK statement.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF020E NUMADDRS encountered without CHANADDR: 'label'

Explanation: The Configuration Manager encountered the NUMADDRS operand but no CHANADDR was previously defined.

System Action: Ignore statement, free memory allocated to adapter and get next card.

CONF021E Invalid PORT number: 'number'

Explanation: The PORT operand is out of the range 0...3 in an ADAPTER or LINK statement.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF022E Unexpected End of File Encountered

Explanation: The Configuration Manager encountered the end of the configuration file before the completion of the parse.

System Action: Exit from module.

CONF023E TRUNK not meaningful in HYPERbus environment: 'trunk name'

Explanation: The TRUNK statement must not be used in describing a HYPERbus network.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF025E Invalid hexadecimal character: 'char' in string: 'string'

Explanation: The Configuration Manager encountered an invalid hexadecimal character.

System Action: Ignore statement, free memory allocated to adapter or link and get next card.

CONF026E Invalid INTEGER: 'number'

Explanation: The Configuration Manager encountered an invalid integer in parse.

System Action: Ignore statement, free memory allocated to PORT and get next card.

CONF027E Invalid PROTOCOL level: 'number' on HOST: 'HOSTname'

Explanation: The Configuration Manager encountered a protocol level that is not currently available.

System Action: Ignore statement, free memory allocated to HOST and get next card.

CONF028E 'parameter name' parameter previously defined as 'name'

Explanation: The Configuration Manager previously encountered a parameter called name.

System Action: Ignore statement, free memory allocated and get next card.

CONF029I Variable truncated: 'variable'

Explanation: The Configuration Manager encountered a variable that is longer than the specified length for that variable.

System Action: Truncate to specified length and continue. This is only a warning.

CONF030E 'name1' statement: 'label' encountered before 'name2' statement: 'label'

Explanation: The Configuration Manager encountered the statement specified by name1 before the statement specified by name2. The statement label is specified by label.

System Action: Ignore statement, free memory allocated to HOST and get next card.

CONF031E Label: 'label' and ADAPT: 'adapt' may not both be specified

Explanation: A label and/or an ADAPT parameter may not be specified for an A400 adapter/link.

System Action: Ignore statement, free memory allocated and get next card.

CONF033E token too long: 'string'

Explanation: The Configuration Manager encountered a token that was longer than the maximum token length.

System Action: Ignore statement, free memory allocated and get next card.

CONF034E Invalid Return Code

Explanation: The translator phase of SCANNER returned an invalid return code.

System Action: Ignore statement, free memory allocated and get next card.

CONF070E Invalid SMGNREF: 'hexvalue', should always = FFFF

Explanation: The Configuration Manager encountered an NREF with the value hexvalue. SMGNREFs should always be "FFFF."

System Action: Ignore statement, free memory allocated and get next card.

CONF071E SMGDREF: 'hexvalue' must have rightmost 2 bits = PORT: 'value'

Explanation: The Configuration Manager encountered a DREF with the value hexvalue. The low-order 2 bits must equal the port number value.

System Action: Ignore statement, free memory allocated and get next card.

CONF073E Invalid 710-mode address: 'address'

Explanation: The 710-mode address is not in the range '00' - 'FF'.

System Action: Ignore statement, free memory allocated and get next card.

CONF074E Invalid trunk (0,1) defined on 715 link 'trunk', NETADDR='ad'

Explanation: 715 links may only have trunks 2 and/or 3 attached.

System Action: Ignore statement, free memory allocated and get next card.

CONF080E BUS not previously defined: 'busname'

Explanation: The Configuration Manager encountered a BUS= parameter, but the name does not match any previously defined HB statements.

System Action: Ignore statement, free memory allocated and get next card.

CONF081E BUS not meaningful with "A" type adapter: 'busname'

Explanation: "A" type adapters may not be attached to a BUS.

System Action: Ignore statement, free memory allocated and get next card.

CONF082E BUS missing in ADAPTER/LINK statement: 'netaddr'

Explanation: "B" type adapters must be attached to a BUS.

System Action: Ignore statement, free memory allocated and get next card.

CONF083E Invalid SEGSIZE value: 'value'

Explanation: SEGSIZE as specified on a PORT statement is greater than 65535.

System Action: Ignore statement, free memory allocated and get next card.

CONF085E SMGDREF Invalid for ADAPTER: 'ad'

Explanation: SMGDREF must be in the range defined by CHANADDR and NUMADDRS.

System Action: Ignore statement, free memory allocated and get next card.

Second Pass Configuration Messages

The configuration manager parser displays the following list of warning messages during pass 2. The actual value of the identifier replaces an identifier enclosed in single quotes (for example: HOSTname). All errors

except CONF044, CONF046, CONF048, and CONF054, and CONF057 set the NCT validation flag (ValidNCT) to FALSE. This flag is always checked before accessing the NCT.

CONF035E Multiple adapters must have same 'operand' value

Explanation: The Configuration Manager encountered a multi-port adapter with duplicate NETADDRs containing one or more operands that do not match.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF036E ADAPT operand: 'operand' must equal adapter label: 'label'

Explanation: The Configuration Manager encountered a multi-port adapter/link with duplicate NETADDRs but the ADAPT operand does not match the previous label.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF037E Multi-port adapters must not have same PORT

Explanation: The Configuration Manager encountered a multi-port adapters with duplicate NETADDRs but the PORT operands are not different.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF038E Duplicate labels in configuration: 'label'

Explanation: The Configuration Manager encountered an entity with the same label as a previously defined entity.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF039E No adapter specified for HOST: 'HOSTname'

Explanation: No adapter was specified for this host. At least one is required for each host.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF040E No SMGR specified for HOST: 'HOSTname'

Explanation: No SMGR was specified for this host. At least one is required for each host.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF041E SMGDREF not specified 'adapter-number'

Explanation: No session-manager DREF was specified for this adapter.

System Action: Display error message, set ValidNCT flag to FALSE, and continue processing.

CONF042E SMGNREF not specified 'adapter-number'

Explanation: No session-manager NREF was specified for this adapter.

System Action: Display error message, set ValidNCT flag to FALSE, and continue processing.

CONF043E HOST: 'HOSTname' has GROUP name equal to real HOST name: 'name'

Explanation: The Configuration Manager encountered a GROUP name that has the same name as a real HOST name.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF044I No PORT found with label: 'label'

Explanation: The Configuration Manager encountered a DEST label and the PORT referred to by the label is not defined.

System Action: Display error message and continue processing. This is only a warning message.

CONF045E Invalid PORT linkage: 'link model', 'link model'

Explanation: The Configuration Manager encountered a PORT that is not a valid linkage to the PORT described in the DEST label. PORTs must connect LINKs of the same type except for A400-B700 links.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF046I No path from HOST 'HOSTname' to HOST 'HOSTname'

Explanation: There is no path connecting HOST A with HOST B. Communication between these hosts cannot take place.

System Action: Display error message and continue processing. This is only a warning message.

CONF047E Missing a multi-port ADAPTER with the label: 'label'

Explanation: There is no adapter with the specified label; there must be for all A400 adapter/links.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF048I The erroneous values are 'value' and 'value'

Explanation: The Configuration Manager encountered an error in which these two values are incorrect.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF049E Multi-port adapters can't have 2 labels 'label', 'label'

Explanation: The Configuration Manager encountered an error in which these two values are incorrect.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF050E Multi-task adapters require unique SMGDREFs

Explanation: The Configuration Manager encountered two adapters on a multi-process host with the same NETADDR and the same SMGDREF. The SMGDREF values must be different. See ADAPTER statement section for details on multi-process hosts.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF051E Multi-task adapters require same PORT numbers

Explanation: The Configuration Manager encountered an two adapters on a multi-process host with the same NETADDR and different PORT numbers. The PORT values must be the same. See ADAPTER statement section for details on multi-process hosts.

Severity: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF053E Duplicate network address: 'address' in LOCALNET: 'label'

Explanation: The Configuration Manager encountered an adapter other than model A400 which specifies the same NETADDR as a previously defined adapter on the same network.

System Action: Display error message, set validNCT flag to FALSE and continue processing.

CONF054I The above NETADDR = an implicitly defined A722

Explanation: The NETADDR specified in the above error message is the same as the A722 unit of an S720 SLS.

System Action: Display error message, continue processing. This is only a warning message that explains the previous error in more detail.

CONF055E HOST: 'name' and HOST: 'name' in GROUP: 'name' need same protocols

Explanation: All hosts in the same group must have specified the same protocols.

System Action: Display error message, set validNCT flag to FALSE and continue processing.

CONF056E HOST: 'name1' and HOST: 'name2' in GROUP: 'name3' need same NREFs\$\$

Explanation: The specified HOSTs name1 and name2 that are in group name3 require the same NREFs.

System Action: Display error message, set ValidNCT flag to FALSE, and continue processing.

CONF057I Parsing completed ValidNCT='flag', Errors='number', Warnings='number'

Explanation: This is only an informational message. The state of the ValidNCT flag is displayed along with the number of error and warning messages encountered.

System Action: Display message and continue processing.

CONF072E Multi-task adapters require unique CHANADDRs

Explanation: The Configuration Manager encountered two adapters on a multi-process host with the same NETADDR and the same CHANADDR. The CHANADDR values must be different. See ADAPTER statement section for details on multi-process hosts.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF075E ADMNREF 'nref' on NTXADM: 'name' = ADMNREF on NTXADM: 'name'

Explanation: Duplicate nrefs used.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

CONF076E ADMNREF 'nref' on NTXADM: 'name' = SMGNREF on HOST: 'name'

Explanation: Duplicate nrefs used.

System Action: Display error message, set ValidNCT flag to FALSE and continue processing.

MAKEPAM Processing Messages

This section describes errors that could be encountered in CONFgetPAM (while processing the MAKEPAM command) are as follows. The actual value of the identifier replaces an identifier enclosed in single quotes (for example, HOSTname).

CONF085E HOST not defined in global configuration: 'HOSTname'

Explanation: The HOST specified was not found in the NCT.

System Action: Generate error message. No PAM is returned to caller.

CONF059E NCT is invalid, PAM cannot be built

Explanation: The parser detected one or more errors. Therefore, the PAM cannot be built.

System Action: Generate error message. No PAM is returned to caller.

CONF060E No path from HOST: 'HOSTname' to HOST: 'HOSTname'

Explanation: No path exists from the specified local host to the specified remote host.

System Action: Generate error message. No PAM is returned to caller. If the “to HOST” name is NTXLCL, there is only one local adapter, and the configuration manager cannot generate a LOOPBACK path for the local host. This not an error.

CONF061E NCT is invalid, HOST Configuration cannot be built

Explanation: The parser has detected one or more errors, therefore, this entry cannot be built.

System Action: Generate error message. No entry is returned to caller.

CONF099I Path exists from HOST: 'hostname' to HOST: 'hostname'

Explanation: There is a route from the first hostname to the second. This is an informational message only.

System Action: Generate message. Continue processing.

NXMCFG Error Messages

General

This section describes NXMCFG error messages. The NXMCFG module issues these error messages. These messages can appear on the console or in the log and begin with the following prefixes: CFG, NXMCFI or NXMCFE.

NXMCFG Error Messages

This section lists and describes all NXMCFG error messages.

CFG: OPENING PAMFILE

Explanation: CFG successfully opened (OPEN) the PAMFILE DD.

CFG: GETTING FIRST RECORD (DIRECTORY)

Explanation: The PAMFILE record (directory).was successfully obtained.

CFG: GETTING MORE RECORDS FOR DIRECTORY

Explanation: CFG is getting more records from the directory.

CFG: GETTING EXTRA RECORDS FOR BASE FILEBUFS

Explanation: CFG is getting extra records for base FILEBUFS.

CFG: GETTING MORE FILEBUF RECORDS

Explanation: CFG is getting more FILEBUF records.

CFG: EOF WHEN READING EXTRA FILEBUFS

Explanation: CFG encountered an EOF when reading extra FILEBUFS

CFG: CLOSING PAMFILE

Explanation: CFG is closing the PAMFILE

CFG: SPL FOR HOST hostname

Explanation: The Configuration Manager created a Session PAM List (SPL).

NXMCFI: CFS RETURN CODE = 9999

Explanation: This message indicates a NetEx error.

NXMCFE: CONNECT TO NETEX FAILED

Explanation: This message indicates a NetEx error.

NXMCFE: READ CONFIRM FROM NETEX FAILED

Explanation: This message indicates the READ confirm from NetEx failed.

NXMCFE: ERROR IN CONFIRM PROTOCOL

Explanation: An error was found in the confirm protocol.

NXMCFE: WRITE TO NETEX FAILED

Explanation: This message indicates the WRITE to NetEx failed.

NXMCFE: WRITE TO NETEX ISSUED

Explanation: This message indicated a WRITE to NetEx was successfully issued.

NXMCFS: CLOSE TO NETEX FAILED

Explanation: This message indicates a CLOSE to NetEx failed.

NXMCFS: CLOSE TO NETEX ISSUED

Explanation: This message indicates a CLOSE to NetEx was issued.

NXMCFS: READ FOR CLOSE FROM NETEX FAILED

Explanation: A CLOSE from NetEx issued a READ and the READ failed.

NXMCFS: CLOSE NOT RECEIVED FROM NETEX

Explanation: NetEx did not receive a CLOSE.

NXMCFS: PAM FILE TRANSFER COMPLETED SUCCESSFULLY

Explanation: This message indicates a successful completion of a PAM file transfer.

NXMCFS: DISCONNECT ISSUED TO NETEX

Explanation: NetEx issued a disconnect.

NXMCFS: INCORRECT LOCAL HOST NAME FOR PAMFILE SPECIFIED

Explanation: The local host name for the PAMFILE was incorrectly specified.

NXMCFS: ERROR OPENING PAMFILE

Explanation: An error was discovered when opening the PAMFILE.

ABEND Codes

General

H210 generates a user type abnormal end (ABEND) when an illogical or unexpected condition occurs. This serves two purposes, it gracefully terminates processing for the smallest possible unit of H210 work, and it provides useful debugging data so the problem can be resolved quickly.

ABEND Codes

Table 10 lists all modules and their associated ABEND codes, and describes each ABEND code.

Table 10. ABEND Codes		
Module	Code	Description
NXMADA	ADA001	NO DEV ADDRESS IN CUB
	ADA002	NOT ENOUGH MEMORY FOR NEW HAD
	ADA003	CUB MATCH ACB BUT NOT MATCH HAD
	ADA004	UNABLE TO LOCATE CUB
	ADA005	HALT IO FAILED
	ADA007	USED FOR DEBUGGING
NXMADC	ADC001	WRONG STATE TO BE IN ADMCN
	ADC003	NIT OR VAL EQUAL TO ZERO AFTER SUBRDQ WAIT FOR CONNECTOR
	ADC004	RESPONSE ID DOES NOT MATCH MY NREF
	ADC007	RESPONSE ID DOES NOT MATCH MY NREF
	ADC008	RESPONSE ID DOES NOT MATCH MY NREF
	ADC009	NO BUFFER ADDR IN CHKPROT
	ADC010	NO ODATA BUFFER ADDRESS IN CHKPROT
NXMADO	ADO004	RC EQUAL TO ZERO ON A TYPE 7 RESPONSE FROM GLOBAL NREF
	ADO005	RESPONSE ID DOES NOT MATCH MY NREF
	ADO006	ADM RETURNED A GOOD TYPE 7 RESP TO A WRITE
	ADO007	RESPONSE ID DOES NOT MATCH MY NREF
	ADO008	RESPONSE ID DOES NOT MATCH MY NREF
	ADO009	NO BUFFER ADDRESS IN CHKPROT
	ADO010	NO ODATA BUFFER ADDRESS IN CHKPROT
NXMADR	ADR009	NO BUFFER ADDRESS IN CHKPROT
	ADR010	NO ODATA BUFFER ADDRESS IN CHKPROT
NXMASY	ASY001	IOB POINTER LOOP
	ASY002	BAD IOB NIT ADDRESS
NXMCFA	CFA001	ATTACHED FAILED FOR UNKNOWN REASON
NXMCFO	CFO001	LOST NETEX BUFFER CONDITION
	CFO002	DATA OUT OF ORDER

Table 10. ABEND Codes		
Module	Code	Description
	CFO003	LOST NETEX BUFFER CONDITION
	CFO004	MUST BE 1 OR WE WOULDN'T BE HERE
	CFO005	SUPPOSED TO BE SPLD - IS NOT
	CFO006	SPLTYPE NOT LOCAL OR PAMLIST
	CFO007	NO TPL BLOCK HOOKED TO SPL
NXMCFR	CFR001	LOST NETEX BUFFER CONDITION
	CFR002	DATA OUT OF ORDER
	CFR003	LOST NETEX BUFFER CONDITION
	CFR004	MUST BE 1 OR WE WOULDN'T BE HERE
	CFR005	SUPPOSED TO BE SPLD - IS NOT
	CFR006	SPLTYPE NOT LOCAL OR PAMLIST
	CFR007	NO TPL BLOCK HOOKED TO SPL
NXMCNS	CNS000	INVALID BUFFER ADDRESS OR MSG LENGTH
NXMDIF	DIF001	NOTHING IN NITDWA AFTER READ COMPLETION
	DIF002	NITUSER NOT EQUAL TO DUBUSER
	DIF003	NUBNNITS NEGATIVE
NXMDIR	DIR001	
	DIR002	
	DIR003	DUBDATAQ QAQLAST PTR INCORRECT
NXMDSP	DSP000	NIT ON PNITQ WITH NO SAVEAREA
	DSP001	NIT ON PNITQ WITH MULTIPLE SAVEAREAS
	DSP002	NIT ON PNITQ WITH WATCHDOG ENABLED
	DSP003	WHAT HAPPENED TO ASYNCH NIT?
	DSP004	BAD N IT ON OSWAIT LIST
	DSP005	DSPCH ENTERED BEFORE INIT COMPLETE
NXMD1A	D1A001	CUB FLAGS SAID FREE, DEV SAID ALLOC
	D1A002	ANY CUB ALLOCATE WITH 0 CUBS
	D1A003	NITORVAL INVALID ON HALT.
	D1A004	NHALT FAILED,
	D1A005	
	D1A006	

Table 10. ABEND Codes

Module	Code	Description
NXMD1I	D1I001	DUPLICATE CUU'S
	D1I002	PROBLEM WITH IORRC
	D1I003	NOT ENOUGH MEMORY FOR INITIALIZATION
	D1I004	UNIT EXCEPTION ON THE WRONG CCW
	D1I005	COMMAND REJECT
	D1I006	ENDOP OF SUBCHANNEL FAILED
	D1I007	CUB NETWORK ADDRESS CONFLICT
	D1I008	SMGDREF NOT IN VALID RANGE
NXMD1M	D1M001	INVALID DEB STRUCTURE
	D1M002	UCB EXTENSION NOT FOUND
NXMD1W	D1W001	ENTRY AT D1WWR AND DRB IS NOT DWRITE
	D1W002	ENTRY AT D1WRD AND DRB IS NOT DREAD
	D1W003	READ REQUEST WITH ZERO ASSOCIATED DATA
	D1W006	BLOCKSIZE-RESIDUAL EQUAL TO NEGATIVE
	D1W007	CSW'S CCW PTR BAD
NXMERM	ERM000	INVALID CONVERSION TYPE SPECIFIED
NXMINI	INI000	NO ADAPTER ADDRESSES SPECIFIED
NXMIOS	IOS001	INVALID IORTYPE
	IOS002	UNIT EXCEPTION NON-READ OP
	IOS007	BAD RETURN FROM PURGE
	IOS008	NO AVAILABLE IOB
NXMMEM	MEM000	CALLED OBSOLETE GET NIT ENTRY
	MEM001	CALLED OBSOLETE GET SAVE ENTRY
	MEM002	ASKED FOR MEMORY WITH ZERO OR MINUS SIZE
	MEM003	ASKED FOR MEMORY WITH SIZE > 32K
	MEM005	FREE SIZE IS INVALID
	MEM006	LOCK TO FREE IS NOT IN A SUBPOOL
	MEM007	SIZE AND SUBPOOL INCOMPATIBILITY
	MEM008	FREED BLOCK ALREADY ON FREE CHAIN
	MEM009	PROBLEM WITH END OF BLOCK INDICATOR
NXMMIH	MIH001	

Table 10. ABEND Codes		
Module	Code	Description
NXMMIN	MIN004	RAN OUT OF FREE MEMORY TO INITIALIZE
NXMNAV	NAV001	
	NAV002	
	NAV003	ACB MATCHING CUB NOT FOUND
NXMNET	NET004	IMPOSSIBLE
NXMNRD	NRD000	NO NRB PASSED TO MODULE
	NRD001	CAN'T HANDLE CLASS
NXMN2A	N2A004	NITUSER NOT EQUAL TO NUBUSER
NXMN2C	N2C001	NITUSER NOT EQUAL TO NUBUSER
	N2C008	INVALID TYPE IN P2ROUTE
	N2C009	BAD RETURN FROM VERFPAM
NXMN2D	N2D002	ODSTART PTR NOT SET
	N2D003	NUBSTATE NOT CORRECT
	N2D004	BAD ROUTE COMPONENT TYPE
NXMN2W	N2W001	NITUSER NOT EQUAL TO NUBUSER
	N2W002	1ST ROUTE COMPONENT IN PAM BAD
	N2W003	1ST ROUTE FLAG NOT SET IN 1ST ROUTE COMP
	N2W004	1ST AND LAST FLAGS NOT SET - INTRAHOST
	N2W005	LAST ROUTE FLAG NOT SET
	N2W006	2ND SLS ROUTE COMPONENT DOESN'T FOLLOW 1ST
	N2W007	NUBNIT LESS THAN ZERO
	N2W008	WEIRD ADAPTER TYPE IN PAM
	N2W009	2ND 710 COMPONENT DOESN'T FOLLOW 1ST
	N2W010	CAN'T FIND ALL THE NITS.
		TWO SLS COMPONENTS IN PAM
NXMOPF	OPF000	
NXMQUE	QUE000	DEQUEUE CALL FOR QAC WITH NO BLOCKS
	QUE001	ENQUEUE CALL WITH NO NEW QAC POINTER
	QUE002	QACNUMB ZERO BEFORE DOING DEQUEUE PROCESS
	QUE003	MOVING ONTO A NON-EMPTY QUEUE
NXMRDR	RDR001	INVALID QACNUMB

Table 10. ABEND Codes

Module	Code	Description
	RDR002	NO ACB????
NXMRET	RET000	ESTING ABEND
NXMROP	ROP001	LOST NETEX BUFFER CONDITION
	ROP003	LOST NETEX BUFFER CONDITION
NXMRRQ	RRQ001	LOST NETEX BUFFER CONDITION
	RRQ003	LOST NETEX BUFFER CONDITION
NXMSES	SES001	BAD BUFFER ADDRESS
NXMSOC	SOC001	BAD BUFFER ADDRESS
NXMSWTPC	USER	098 MVCP OF USER'S TCB ADDRESS USER-TO-NETEX FAILED
NXMS2R	S2R001	LOST BUFFER ADDRESS
NXMTMR	TMR000	IMPOSSIBLE ENTRY CONDITION
NXMT1A	T1A002	WE MUST BE IN DISC MODE
	T1A003	MULTIPLE ITEMS ON TUBASSGN QUEUE
	T1A004	ODD RC FROM UBMGR
NXMT1C	T1C001	INDETERMINABLE PROBLEM
	T1C002	TRANSPORT PROTOCOL INFO ABOVE 255
	T1C003	NEGATIVE NO OF I/O'S STARTED...
	T1C004	T-CONNECT W/O PAM IN CON SUBROUTINE
	T1C005	OVERFLOW MESSAGE TOO LARGE
	T1C006	NIT DISPATCHED FROM ACK Q INCORRECTL
	T1C009	NEGATIVE AMOUNT OF MEMORY IN TUB???
NXMT1D	T1D002	DATA ON THE QUEUE W/O SESSION INFO
	T1D004	UNKNOWN BUFIND TO-FAR INTO MODULE
	T1D006	THE ACK INFO'S PBN < PBN FOR THIS ACK
	T1D007	THE ACK INFO'S PBN > LAST ACK PBN
NXMT1O	T1O003	TIME OUT NIT GOT DISP W/O TIME OUT
NXMT1P	T1P001	
NXMT1R	T1R001	READ DATA QUEUE EMPTY ERROR
	T1R002	FIRST QUEUE ENTRY DID NOT MATCH TUB
	T1R003	TIMEOUT NIT GOT DISPATCHED WRONG

Table 10. ABEND Codes		
Module	Code	Description
NXMT1W	1W001	NITUSER NOT EQUAL TUBUSER
NXMT2A	T2A001	NOT IN DISC MODE
	T2A002	NO DISC IND ON DATA QUEUE
	T2A003	LRN EQUAL TO ZERO, BUT IND NOT EQUAL TO TDISC
	T2A004	TUBNNIT IS NEGATIVE
	T2A005	FIXED TREF ASSIGN FAILED
NXMT2C	T2C001	NO ODATA BUFFER
	T2C002	TRANSPORT PROTOCOL INFO ABOVE 33
	T2C003	NEGATIVE NO OF I/O'S STARTED
	T2C004	PDATA PTR WITH NO PDATA BUFFER
	T2C005	USE COUNT IN PDATA BUFFER NEGATIVE
	T2C006	BAD TUBSTATE WHEN LAST CLOSE SEG ACKED
	T2C007	TUBTBCUR IS NEGATIVE
	T2C008	N-CONNECT FAILED ?? WHY??
	T2C009	BAD NNITS?
NXMT2D	T2D004	SEGMENT QUEUE NOT EMPTY WHEN CLOSE MSG IN
	T2D005	IN BAD STATE WHEN ALL OF CLOSE MSG IN
	T2D006	THE ACK INFO'S PBN LESS THAN PBN FOR THIS ACK
	T2D007	THE ACK INFO'S PBN GREATER THAN LAST ACK PBN
	T2D008	NEW NPDU IS LESS THAN THE PREVIOUS NPDU
	T2D009	DUPLICATE BLK DESCRIPTOR LRNS
	T2D011	NASSIGN OR NOFFER FAILED
NXMT2O	T2O001	CLOSED MODE NIT WOKEN UP BUT DIDN'T TIME OUT
	T2O002	WAKED-UP AND XPORT NOT STILL IN CLOSED MODE
	T2O003	XPORT NOT IN CLOSED MODE WHEN THIS NIT SPAWNED
	T2O004	DATA WAITING NIT NOT TIMED OUT, CLOSED, OR DISC
	T2O005	RECEIVE TIMEOUT NIT WOKEN UP - DIDN'T TIME OUT
	T2O006	
	T2O007	BAD # NITS AFTER GOING INTO CLOSED MODE QV52301
	T2O008	PDATA BUFFER NOT FREED YET AND WE'RE CLOSED

Table 10. ABEND Codes

Module	Code	Description
	T2O009	NO PAM LIST PTR IN TUB
	T2O010	NEXT PAM PTR BEYOND END OF PAM LIST
	T2O011	N-ASSIGN FAILED
	T2O012	DATA WAITING NIT - BLK HAS LRN EQUAL TO ZERO
		NOT DISC IND
NXMT2R	T2R004	BLKLRN IS ZERO BUT BLKIND NOT-EQUAL DISC
	T2R005	NOT IN CLOSED OR DISC MODE WHEN WOKEN UP
	T2R007	TUBSTATE NOT CORRECT WHEN READING CLOSE
	T2R009	# NITS??
NXMT2W	T2W001	NITUSER NOT EQUAL TO TUBUSER
	T2W002	PAMLIST IS NOT TYPE 2
	T2W003	NO PDATA BUFFER PASSED IN
	T2W004	NO ODATA BUFFER
NXMUBM	UBM001	INVALID NETEX LAYER
	UBM002	ENTRY HAS A ZERO UBPTR
	UBM003	R6(INDEX TABLE PTR) NOT CORRECT
NXMUIF00	USER002	1) STARTING AND ENDING ADDRESSES OF USER'S NRB HAVE UNEQUAL STORAGE-KEYS 2) COMPLETION-CODE RETURNED FROM NXMUSRPC IS NEGATIVE
	USER310	RE-ISSUED NRB
NXMURD	URD001	LOST BUFFER CONDITION
	URD002	CONNECTION TABLE BOTCHED
	URD003	CAN'T HANDLE CLASS
	URD004	BLOCK POINTERS BOTCHED
	URD005	NRBUSE LESS THAN 1 BEFORE SUBTRACT
	URD006	NRBUSE LESS THAN 1 AFTER SUSPEND
	URD007	BAD CHAIN ABEND
NXMUSRPC	USER088	MVCS OF NETEX NRBPATH NETEX-TO-USER FAILED
NXMWDG	WDG000	R1 PROBABLY GARBAGE ON START OR STOP REQ
	WDG001	NIT TO BE WATCHED ALREADY BEING WATCHED
NXMXME	XME001	A(SCTX) EQ A(SSVT)) NE 0

Table 10. ABEND Codes		
Module	Code	Description
	XME002	A(SSVT) LE A(SCTX)
NXMXPO	XPO001	INVALID XPO REQUEST NUMBER
	XPO002	IMPOSSIBLE

Index

ABEND	114	CONF045E	109
understanding	114	CONF046I	109
abnormal end (ABEND)	114	CONF047E	109
action	13	CONF048I	109
ASCII	vii	CONF049E	109
asynchronous	vii	CONF050E	109
buffer	vii	CONF051E	109
CFG	112	CONF053E	110
CONF001I	103	CONF054I	110
CONF002E	103	CONF055E	110
CONF003E	103	CONF056E	110
CONF004E	103	CONF057I	110
CONF005I	103	CONF059E	111
CONF006I	104	CONF060E	111
CONF007E	104	CONF061E	111
CONF008E	104	CONF070E	107
CONF009E	104	CONF071E	107
CONF010E	104	CONF072E	110
CONF011E	104	CONF073E	107
CONF012E	104	CONF074E	107
CONF013E	104	CONF075E	110
CONF014E	104	CONF076E	110
CONF015E	105	CONF080E	107
CONF016E	105	CONF081E	107
CONF017E	105	CONF082E	107
CONF018E	105	CONF083E	107
CONF019E	105	CONF085E	107, 111
CONF020E	105	CONF099I	111
CONF021E	105	configuration manager	vii
CONF022E	105	Configuration Manager parse errors	103
CONF023E	105	disaster	13
CONF025E	106	driver errors	92
CONF026E	106	error	13
CONF027E	106	fatal	13
CONF028E	106	first pass configuration messages	103
CONF029I	106	general errors	90
CONF030E	106	header	vii
CONF031E	106	host	vii
CONF033E	106	information	13
CONF034E	106	Internet Protocol (IP)	vii
CONF035E	108	ISO	vii
CONF036E	108	link	vii
CONF037E	108	MAKEPAM processing messages	111
CONF038E	108	message format	13
CONF039E	108	Network Configuration Table (NCT)	vii
CONF040E	108	network errors	100
CONF041E	108	NRBIND	87
CONF042E	108	NRBSTAT	87
CONF043E	108	code format	88
CONF044I	109	NXM mmm 000,I,15	15

NXM mmm 001,I,15	15	NXM mmm 202,E,07.....	33
NXM mmm 005,F,15	15	NXM mmm 203,E,05.....	34
NXM mmm 009,W	15	NXM mmm 209,E,12.....	34
NXM mmm 010,I	16	NXM mmm 210,I,05.....	34
NXM mmm 011,I,8	16	NXM mmm 211,E,06.....	35
NXM mmm 012,I,8	16	NXM mmm 212,E,12.....	35, 36
NXM mmm 015,E,15	17	NXM mmm 213,E,08.....	36
NXM mmm 016,W,6.....	19	NXM mmm 215,I,08.....	37
NXM mmm 017,W,8.....	19	NXM mmm 216,I,12.....	37
NXM mmm 020,E,15	19	NXM mmm 220,I,05.....	38
NXM mmm 021,E,15	19	NXM mmm 221,I,04.....	38
NXM mmm 022,E,15	20	NXM mmm 222,I,05.....	38
NXM mmm 023,E,15	20	NXM mmm 223,E,12.....	38
NXM mmm 026,E,15	20	NXM mmm 224,I,05.....	39
NXM mmm 027,E,15	21	NXM mmm 229,E,07.....	39
NXM mmm 028,I,15	21	NXM mmm 230,E,07.....	39
NXM mmm 029,I,15	21	NXM mmm 231,E,07.....	40
NXM mmm 030,I,15	21	NXM mmm 232,E,07.....	40
NXM mmm 031,I,15	22	NXM mmm 233,I,05.....	40
NXM mmm 032,I,15	22	NXM mmm 234,I,05.....	40
NXM mmm 080,W,15.....	22	NXM mmm 235,E,06.....	17, 41
NXM mmm 081,W,15.....	22	NXM mmm 240,I,05.....	41
NXM mmm 082,I,15	22	NXM mmm 250,I,12.....	42
NXM mmm 083,F,15	23	NXM mmm 251,I,12.....	42
NXM mmm 084,E,15	23	NXM mmm 260,I,06.....	42
NXM mmm 100,I,12	23	NXM mmm 300,E,07.....	44
NXM mmm 101,I,12	24	NXM mmm 301,E,07.....	44
NXM mmm 102,I,08	24	NXM mmm 302,E,07.....	45
NXM mmm 103,I,08	24	NXM mmm 303,E,09.....	45
NXM mmm 104,I	25	NXM mmm 310,I,09.....	45
NXM mmm 105,I,08	25	NXM mmm 315,I,09.....	46
NXM mmm 106,I,06	25	NXM mmm 316,I,09.....	46
NXM mmm 107,I,12	26	NXM mmm 317,I,09.....	47
NXM mmm 108,I,12	26	NXM mmm 320,I,07.....	47
NXM mmm 109,I,06	26	NXM mmm 321,E,06.....	45, 47
NXM mmm 110,I,12	27	NXM mmm 322,I,09.....	47
NXM mmm 111,I,15	27	NXM mmm 330,E,09.....	48
NXM mmm 112,I,15	27	NXM mmm 331,I,15.....	48
NXM mmm 113,I,15	28	NXM mmm 334,I,15.....	48
NXM mmm 114,E,15	28	NXM mmm 335,E,15.....	49
NXM mmm 120,I,06	28	NXM mmm 337,E,15.....	49
NXM mmm 127,I,06	29	NXM mmm 338,I,12.....	49
NXM mmm 128,E,06	29	NXM mmm 339,I,15.....	50
NXM mmm 129,E,06	29	NXM mmm 340,I,15.....	50
NXM mmm 130,I,06	30	NXM mmm 341,I,15.....	50
NXM mmm 132,I,06	30	NXM mmm 342,E,12.....	50
NXM mmm 134,I,06	30	NXM mmm 343,E,12.....	51
NXM mmm 136,I,06	31	NXM mmm 344,I,12.....	51
NXM mmm 160,I,08	31	NXM mmm 345,I,12.....	51
NXM mmm 161,I,08	31	NXM mmm 346,E,12.....	52
NXM mmm 162,I,08	32	NXM mmm 347,I,15.....	52
NXM mmm 163,I,08	32	NXM mmm 348,I,15.....	52
NXM mmm 164,I,08	32	NXM mmm 349,I,12.....	52
NXM mmm 165,E,12	32, 33	NXM mmm 350,I,12.....	52
NXM mmm 200,E,07	33	NXM mmm 351,E,12.....	53
NXM mmm 201,E,07	33	NXM mmm 401,E,15.....	53

NXM mmm 431,E,12	54	NXM mmm 663,E,08.....	71, 72
NXM mmm 432,I,12	54	NXM mmm 664,E,08.....	72, 73
NXM mmm 440,F,15	54	NXM mmm 700,I,06.....	73
NXM mmm 441,E,15	54	NXM mmm 701,I,06.....	74
NXM mmm 442,F,08	55	NXM mmm 704,I,06.....	75, 76, 77, 78, 79, 80, 81, 82
NXM mmm 500,F,15	55	NXMADA	115
NXM mmm 502,I,12	55	NXMADC	115
NXM mmm 503,I,12	56	NXMADO	115
NXM mmm 504,I,12	56, 57	NXMADR	115
NXM mmm 505,F,15	55	NXMASY	115
NXM mmm 510,W,04.....	57, 59	NXMCFA	115
NXM mmm 511,E,08	57	NXMCFG error messages.....	112
NXM mmm 520,F,15	57	NXMCFI	112
NXM mmm 521,F,15	58	NXMCFIO	115
NXM mmm 522,F,15	58	NXMCFR	116
NXM mmm 523,F,15	58	NXMCFS	112, 113
NXM mmm 524,F,15	59	NXMCNS	116
NXM mmm 525,W,16.....	59	NXMD1A	116
NXM mmm 526,W,16.....	59	NXMD1I	117
NXM mmm 530,I,08	60	NXMD1M.....	117
NXM mmm 531,E,12	60	NXMD1W.....	117
NXM mmm 532,I,08	60	NXMDIF.....	116
NXM mmm 550,W	60	NXMDIR	116
NXM mmm 555,W	61	NXMDSP	116
NXM mmm 560,W	61	NXMERM.....	117
NXM mmm 575,W	61	NXMINI.....	117
NXM mmm 580,I,08	61	NXMINI700I	83
NXM mmm 581,I,08	62	NXMINI705I	83
NXM mmm 582,I,08	62	NXMINI710I	83
NXM mmm 583,I,08	62	NXMINI715I	83
NXM mmm 584,E,08	62	NXMINI720I	83
NXM mmm 585,E,08	62	NXMINI725I	83
NXM mmm 586,E,08	62	NXMINI730I	83
NXM mmm 587,E,08	63	NXMIOS.....	117
NXM mmm 600,E,07	63	NXMLOGCN1W.....	84
NXM mmm 601,E,07	63	NXMLOGCN2E.....	84
NXM mmm 602,I,05	63	NXMLOGCN3W.....	84
NXM mmm 603,E,07	64	NXMLOGCN4W.....	84
NXM mmm 610,I,05	64	NXMLOGES1W.....	85
NXM mmm 620,I,05	64	NXMLOGES2I	85
NXM mmm 621,E,12	65	NXMLOGIN1E	84
NXM mmm 622,I,05	65	NXMLOGIN2W	84
NXM mmm 623,E,15	65	NXMLOGIN3W	84
NXM mmm 624,E,12	65	NXMLOGIN4I	84
NXM mmm 629,E,07	66	NXMLOGOF1E	84
NXM mmm 630,E,07	66	NXMLOGOF2I.....	85
NXM mmm 631,E,07	66	NXMLOGOF3I.....	85
NXM mmm 632,E,08	67	NXMLOGPR1E.....	85
NXM mmm 633,I,05	67	NXMLOGPR2I.....	85
NXM mmm 656,I,06	67	NXMLOGPR3W	85
NXM mmm 657,I,08	67	NXMLOGPR4I.....	85
NXM mmm 658,E,06	68	NXMLOGTX1I	85
NXM mmm 659,E,08	68	NXMLOGTX2I	85
NXM mmm 660,I,06	68	NXMLOGTX3E	85
NXM mmm 661,E,08	70	NXMLOGTX4F	86
NXM mmm 662,E,08	71	NXMLOGTX5I	86

NXMLOGTX6I.....	86	NXMT1R.....	119
NXM MEM.....	117	NXMT1W.....	120
NXM MIH.....	117	NXMT2A.....	120
NXM MIN.....	118	NXMT2C.....	120
NXM N2A.....	118	NXMT2D.....	120
NXM N2C.....	118	NXMT2O.....	120
NXM N2D.....	118	NXMT2R.....	121
NXM N2W.....	118	NXMT2W.....	121
NXM NAV.....	118	NXMTMR.....	119
NXM NET.....	118	NXMUBM.....	121
NXMNRD.....	118	NXMUIF00.....	121
NXMOPF.....	118	NXMURD.....	121
NXMQUE.....	118	NXMUSRPC.....	121
NXMRDR.....	118	NXMWDG.....	121
NXMRET.....	119	NXM XME.....	121
NXMROP.....	119	NXM XPO.....	122
NXMRRQ.....	119	Open Systems Interconnection (OSI).....	vii
NXMS2R.....	119	path.....	vii
NXMSSES.....	119	response.....	13
NXMSOC.....	119	second pass configuration messages.....	107
NXMSWTPC.....	119	session errors.....	96
NXMT1A.....	119	severe.....	14
NXMT1C.....	119	special H210 errors.....	92
NXMT1D.....	119	transport errors.....	94
NXMT1O.....	119	user interface errors.....	90
NXMT1P.....	119	warning.....	14