



# Sun Enterprise 10000 IDN Error Messages

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# Preface

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This book contains the InterDomain Network (IDN) error messages that occur on Sun Enterprise™ 10000 domains.

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## Before You Read This Book

This book is intended for the Sun Enterprise 10000 server system administrator who has a working knowledge of UNIX® systems, particularly those based on the Solaris™ operating environment. If you do not have such knowledge, first read the Solaris user and system administrator books in AnswerBook2™ format provided with this system and consider UNIX system administration training.

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## How This Book Is Organized

This book contains the following chapters:

Chapter 1 introduces the IDN error messages.

Chapter 2 contains the IDN error messages that occur on the domain.

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# Using UNIX Commands

This document may not contain information on basic UNIX commands and procedures such as shutting down the system, booting the system, and configuring devices.

Refer to one or more of the following for this information:

- AnswerBook2 online documentation for the Solaris software environment
  - Other software documentation that you received with your system
- 

## Typographic Conventions

Typeface or Symbol	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your .login file. Use ls -a to list all files. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
AaBbCc123	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this.
	Command-line variable; replace with a real name or value	To delete a file, type rm <i>filename</i> .

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## Shell Prompts

Shell	Prompt
C shell	<i>machine_name%</i>
C shell superuser	<i>machine_name#</i>
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#

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## Related Documentation

Application	Title	Part Number
User	<i>Sun Enterprise 10000 IDN Configuration Guide</i>	806-5230
	<i>Sun Enterprise 10000 IDN User Guide</i>	806-4131

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# IDN Errors Introduction

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This chapter contains an introduction to the IDN error messages that occur on the domain.

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**Note** – If you do not find the error message in this book, refer to the error messages in the *Sun Enterprise 10000 InterDomain Networks User Guide* in the SSP 3.4 Answerbook collection.

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## Searching the Tables in This Book

Before you use the tables in this book, take time to read the following list of search tips so that you can find a specific message.

- Search on a specific string of text in the error message.
- Avoid using numeric values. They are treated as replaceable text in this book.
- Avoid using text that is replaceable. In this book, the following names are used to represent replaceable text in the error messages: *descriptive message*, *errno\_description*, *device\_name*, *target\_path*, *mount\_point*, *interface\_name\_instance*, *interface\_name*, and *partition\_name*.
- If you are reading this text in hard-copy form, the tables are presented in order by the type of error or failure. The contents of the tables is sorted alphabetically in decending order.

# Online Searching

You can use the search engine provided in the AnswerBook2™ environment or the search engine in your browser to find a specific string of characters from an error message. Before you construct the search string, keep in mind that this appendix contains special typographical conventions. In addition, you may need to search all of the tables individually. If you know the error type (that is, where the error was encountered), use the hypertext links in “IDN Error Messages on the Domain” on page 2 to start your search.

## Special Typographical Conventions

The tables in this appendix contain special typographical conventions for the names of words and values that change, depending on the type of error. When you search for an error message, keep in mind that these names appear as generic representations in italic font. The following list contains the commonly used representations used in this appendix.

- *domain\_ID* for the value of the domain ID
  - *domain\_name* for the names of all domains
  - *domain\_name\_a*, *domain\_name\_b*, *domain\_name\_c* for the names of the domains used with the IDN commands
  - *platform\_name* for the name of the Sun Enterprise™ 10000 platform
  - *process\_id* for the value of the process ID (pid number)
  - *system\_board\_number* for the number of a system board (that is, 1 through 15)
  - *number* for numeric values
- 

## IDN Error Messages on the Domain

This book contains the IDN messages that occur on the domain from which the IDN command was executed. TABLE 2-1 contains the name, number, and description of IDN `errno` numbers. This table describes some of the message conventions that are used in the message tables. TABLE 2-2 through TABLE 2-6 contain the common InterDomain Network errors, notifications, and panics that can occur on the domain. These tables contain the text of the error, description of the possible cause of the error, and suggested action. For notifications, the list contains the text of the notice and a possible cause of the message.

Use one of the following links to start your search.

TABLE 2-1 on page 5, which contains the `errno` messages.

TABLE 2-2 on page 7, which contains messages 100 through 142.

TABLE 2-3 on page 13, which contains messages 200 through 242.

TABLE 2-4 on page 20, which contains messages 300 through 307.

TABLE 2-5 on page 21, which contains messages 400 through 450.

TABLE 2-6 on page 22, which contains messages 500 through 516.



# IDN Error Messages, Notifications, and Panics on the Domain

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This chapter contains IDN error numbers that appear on the domain and IDN error messages, notifications, and panics that occur on the domain.

The destination of these messages depends entirely on the location of the individual error or failure. For some errors, both locations must be used to diagnose the error or failure.

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## Domain IDN Messages

IDN messages that occur on the domain are sent to the following locations:

- netcon(1M) console window
- /var/adm/messages
- \$SSPLOGGER/*domain\_name*/messages

The following table contains the IDN error numbers that are specific to the domain.

**TABLE 2-1** IDN Domain-Specific Error Numbers

Message	Number	Description
IDNKERR_DRV_DISABLED	0x100	The IDN driver is disabled.
IDNKERR_DATA_LEN	0x101	The IDN region in the signature block (BBSRAM) is misaligned between the IDN driver and the SSP ( $\text{P}_0$ represents the length).
IDNKERR_INFO_FAILED	0x102	SSI_INFO command failed (only in engineering).

**TABLE 2-1** IDN Domain-Specific Error Numbers (*Continued*)

Message	Number	Description
IDNKERR_INVALID_DOMAIN	0x103	An invalid domain ID was specified (P0 represents the domain ID, and P1 represents the CPU ID).
IDNKERR_INVALID_FORCE	0x104	An invalid force option was passed (P0 represents the force option).
IDNKERR_INVALID_CMD	0x105	An invalid IDN command was requested (P0 represents command).
IDNKERR_INVALID_WTIME	0x106	An invalid wait time was specified for the IDN operation (P0 represents the wait time).
IDNKERR_SMR_CORRUPTED	0x107	SMR memory was found corrupted (P0 represents the domain ID, against which the corruption was found).
IDNKERR_CPU_CONFIG	0x108	Domain ID is not configured properly for an IDN. Each system board that hosts memory must have at least one CPU (P0 represents the domain ID).
IDNKERR_HW_ERROR	0x109	The domain was unable to properly program the hardware to support an IDN connection to domain ID (P0 represents the domain ID)
IDNKERR_SIGINTR_LOCKED	0x10a	The signature block interrupt lock on the host is currently locked.
IDNKERR_SIGINTR_BUSY	0x10b	The signature block interrupt handler thread is currently active.
IDNKERR_SIGINTR_NOTRDY	0x10c	The signature block interrupt handler thread has not been initialized.
IDNKERR_CONFIG_FATAL	0x10d	An error occurred during the exchange of configuration information with domain ID, specifically it was missing information (P0 represents the domain ID).
IDNKERR_CONFIG_MULTIPLE	0x10e	Multiple conflicts were found between the configuration parameters exchanged during the connection establishment (P0 represents the domain ID).
IDNKERR_CONFIG_MTU	0x10f	The MTU sizes of the domains do not match (P0 represents the domain ID; P1 represents the expected value, and P2 represents the actual value).
IDNKERR_CONFIG_BUF	0x110	The values of the idn_smr_bufsize variable conflict among the domains (P0 represents the domain ID; P1 presents the expected value, and P2 represents the actual value).
IDNKERR_CONFIG_SLAB	0x111	The values of the SMR slab sizes conflict among the domains (P0 represents the domain ID; P1 represents the expected value, and P2 represents the actual value).

**TABLE 2-1** IDN Domain-Specific Error Numbers (*Continued*)

Message	Number	Description
IDNKERR_CONFIG_NWR	0x112	The values of the <code>idn_nwr_size</code> variables conflict among the domains ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_NETS	0x113	The values of the <code>idn_max_nets</code> variables conflict between domains ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_MBOX	0x114	The values of the <code>idn_mbox_per_nets</code> variables conflict between domains ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_NMCADR	0x115	The number of MCADRs received does not match the number of MCADRs that the domain had reported to exist ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_MCADR	0x116	Received an MCADR for a board that the remote domain did not report to exist ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_CKSUM	0x117	The values of the <code>idn_checksum</code> parameter is not consistent among the domains ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).
IDNKERR_CONFIG_SMR	0x118	The master domain SMR is too large for the slave domain ( <code>P0</code> represents the domain ID; <code>P1</code> represents the expected value, and <code>P2</code> represents the actual value).

The following table contains the errors, notices, and panics that are specific to the domain.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142

Error	Description	Recovery
WARNING: IDN: 100: sigblock area misaligned (bytes) != exp (bytes)	This message indicates a mismatch between the version of the sigblock data structure in the IDN driver and the region of the signature block that is reserved for the IDN.	Unlink the domains, then recreate the IDN.
WARNING: IDN:101: not in expected OFFLINE state for DDI_RESUME	The IDN driver is not in the expected state for the DR driver to perform the DDI_RESUME operation.	Unlink the domain, then relink it.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
NOTICE: IDN: 102 driver disabled - check OBP environment (idn-smr-size)	The IDN driver was not initialized.	Check the OpenBoot PROM (OBP) variable idn-smr-size to ensure that it is set properly. Refer to the <i>Sun Enterprise 10000 IDN Configuration Guide</i> for more information about this variable.
WARNING: IDN: 103: unable to reference sigblock area	The sgnblk_poll_reference() routine failed to initialize. The IDN driver may have been loaded too early in the boot sequence.	Reload the module after the operating system boots.
WARNING: IDN: 104: cannot suspend while active (state = GSTATE)	The IDN driver cannot be suspended while it is in use.	Wait for the driver to complete the current transmission, or unlink the domain from the IDN before you initiate a DR operation.
WARNING: IDN: 105: driver parameter (parameter) specified (number) out of range [low_value - high_value]	The value for the specified parameter is outside of the range of values that can be used for the IDN.	Reset the parameter with a value that is within the allowed range.
WARNING: IDN: 106: idn_nwr_size (Mbytes) > idn_smr_size(Mbytes) - Limiting to number MB	The value of idn_nwr_size variable is greater than the value of idn_smr_size variable. The value of idn_nwr_size cannot be larger than the value of idn_smr_size.	The IDN driver reduces the size of the network region (NWR) to the total size of the shared memory region (SMR). If the IDN must have a NWR that is larger than the current size of the SMR, increase the size of the SMR so that the size of the NWR can be increased to the appropriate value.
WARNING: IDN: 107: memory_region(bytes) < slab_size(bytes)	The value of the idn_nwr_size variable is less than the size of one of the slabs within the SMR.	Increase the value of idn_smr_size or idn_nwr_size to a value that is larger than the smallest buffer size in the SMR. Or, reset other tunables, such as idn_slab_bufcount, until the size of each slab within the IDN is smaller than the value of idn_nwr_size.
WARNING: IDN: 108: idn_lowat(bytes) >= idn_hiwat(bytes)	The specified values for the low-water and high-water marks for IDN STREAMS are not set properly.	Lower the value of idn_lowat or increase the value of idn_hiwat as appropriate. Refer to the <i>Sun Enterprise 10000 IDN Configuration Guide</i> for more information about the appropriate values for these parameters.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 109: mailbox area( <i>bytes</i> ) + slab size( <i>bytes</i> ) > nwr region( <i>bytes</i> )	The specified values for the mailbox area, <code>idn_mbox_size</code> , and the slab size, <code>idn_slab_size</code> , variables are not set properly.	Increase the size of the NWR or the SMR so that the size of the NWR can be increased. You can also decrease the size of other variables, such as the number of mailboxes per channel, <code>idn_mbox_per_channel</code> , or the number of I/O buffers per slab, <code>idn_slab_bufcount</code> .
WARNING: IDN: 110: maximum number of slabs( <i>number</i> ) < minimum required( <i>number</i> )	The value of the <code>idn_slab_maxtotal</code> variable is less than the required minimum. The value of this variable is calculated by the IDN driver. The driver returns this warning if the value is less than the minimum value for nominal usage of the IDN.	Lower the value of the <code>idn_slab_mintotal</code> variable, or increase the value of the SMR so that it can hold more slabs. You may need to adjust the value of other driver parameters, such as <code>idn_slab_bufcount</code> , to recover from this error.
WARNING: IDN: 111: <code>idn_smr_bufsize(bytes)</code> not on a 64 byte boundary	The value of the <code>idn_smr_bufsize</code> variable must be a multiple of 64.	Reset the <code>idn_smr_bufsize</code> variable to a multiple of 64.
WARNING: IDN: 112: <code>idn_smr_bufsize(bytes)</code> not a power of 2	The value of the <code>idn_smr_bufsize</code> variable must be set to a value that is a power of two.	Reset the <code>idn_smr_bufsize</code> variable to a power of two.
WARNING: IDN: 113: <code>idn_mbox_per_net(number)</code> must be an odd number	For proper hashing, the value of the <code>idn_mbox_per_net</code> variable must be an odd number.	Reset the <code>idn_mbox_per_net</code> variable to an odd number.
WARNING: IDN: 115: <code>idn_netsvr_wait_min</code> ( <i>seconds</i> ) cannot be greater than <code>idn_netsvr_wait_max</code> ( <i>seconds</i> )	The minimum wait time for the IDN net server cannot be greater than the maximum wait time.	Decrease the value of <code>idn_netsvr_wait_min</code> , or increase the value of <code>idn_netsvr_wait_max</code> .
WARNING: IDN: 116: failed <code>rmalloc(kernelmap,</code> <i>number</i> pages)	The operating system failed to allocate pages <i>number</i> of the virtual address space for the mapping of the SMR.	Reboot the domain, then attempt to link the domain to the IDN.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 117: IDN not enabled	The IDN driver failed to initialize the IDN because the IDN was not enabled (that is, <code>idn-smr-size</code> is set to zero).	At the OBP prompt, use the <code>ndd(1M)</code> command to check the value of the <code>idn-smr-size</code> variable. If it is set to zero, reset it to the appropriate value to enable the IDN and to set the size of the SMR. You must reboot the domain if you change the value of this variable.
WARNING: IDN: 118: hardware config not appropriate	<p>The hardware configuration within the domain that you are trying to link is not appropriate for an IDN, or the IDN driver could not determine the hardware configuration.</p> <p>The hardware configuration within a domain could cause this error if it consists of one of the following configurations:</p> <ul style="list-style-type: none"><li>A system board that hosts memory does not host a CPU.</li><li>System boards in domains must host at least one CPU for the domain to be considered eligible for linking to an IDN. See option <code>no_non_proc_boards</code> in the <code>postrc(4)</code> man page on the SSP for information on how to prevent system boards without a CPU from being included in the domain.</li><li>The shared memory mask on the CIC is not enabled to allow the IDN driver to manipulate the registers.</li></ul>	Ensure that each system board that contains memory has at least one CPU and that SSP 3.2 is running on the SSP.
WARNING: IDN: 119: failed to initialize <i>number</i> protocol servers	The IDN driver failed to start up the <i>number</i> protocol servers that manage the IDN connections. Typically, a strain on kernel resources causes this error.	Reload the IDN driver. If this error occurs repeatedly, reduce the memory usage by other applications, if possible.
WARNING: IDN: 120: cannot deinit while active (state = <i>GSTATE</i> )	The DR operation tried to deinitialize the IDN driver while it was still in use (that is, not offline).	Ensure that the domain is completely unlinked from all IDNs before you initiate a DR operation on the domain.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
IDN: 121: domain <i>domain_ID</i> (cpu <i>CPUID</i> , name "host", state <i>DSTATE</i> )	This error displays the IDN state of each domain connection. This error message occurs in conjunction with messages 104 and 120.	See error messages 104 and 120.
WARNING: IDN: 123: unexpected M_DATA packets for q_stream <i>VADDR</i>	The STREAMS read procedure in the IDN driver received an unexpected data packet on the respective stream queue. The packet is discarded.	If this error persists, report the problem to your Sun Microsystems, Inc., service representative.
WARNING: IDN: 124: sigblk for cpuid <i>CPUID</i> is NULL	The CPU in question expected to receive messages from the SSP; however, the signature block (BBSRAM) data structure for that CPU is not mapped properly.	Unload, then reload, the IDN driver. If that does not work, unlink the domain, then reboot it. Relink the domain after it has booted successfully.
WARNING: IDN: 125: op ( <i>IDNOP</i> ) failed, returning ( <i>errno/IDNERR</i> [ <i>EParam0</i> , <i>EParam1</i> , <i>EParam2</i> ])	An attempted IDN operation (link, unlink, or info) failed. In the message, <i>errno</i> equals the error number, <i>IDNERR</i> equals the IDN error, and <i>EParam2</i> represents the parameters that are dependent on this type of IDN error.	Ensure that you used the correct parameters. If not, retry the operation with the correct parameters.
WARNING: IDN: 126: sighandler thread already exists ( <i>VADDR</i> )	The IDN driver attempted to create an unnecessary, duplicate, sigblock-interrupt-handler thread.	You can safely ignore this message.
WARNING: IDN: 127: cannot change <i>parameter</i> while IDN connected	The IDN tunable parameter that you tried to change cannot be changed while the domain is linked to an IDN.	Unlink the domain before you attempt to change the parameter settings for the specified parameter ( <i>parameter</i> ).
WARNING: IDN: 128: cannot change <i>parameter</i> while DLPI attached	The IDN tunable parameter that you tried to change cannot be changed while the IDN interface ( <i>iDnX</i> ) is plumbed under TCP/IP.	Unplumb all of the IDN interfaces that are under TCP/IP control before you attempt to change the parameter settings for the specified parameter ( <i>parameter</i> ).
WARNING: IDN: 129: <i>IDNOP</i> operation timed out	An IDN operation (link, unlink, or info) exceeded the specified wait-time before it successfully completed.	Check for AWOL domains in the IDN. If present, unlink the AWOL domain before you attempt to unlink the local domain. You can use the force option, -f or -F; however, you must use the force option with caution.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 130: IDN DMV handler already initialized	The IDN driver attempted to initialize the interrupt handler too many times.	Reboot the domain. If this error persists, contact your Sun service representative.
WARNING: IDN: 131; unable to allocate data area for DMV handler	The IDN driver was unable to allocate a data area for control structures that are used by the DMV handler.	This error typically occurs when memory usage levels are too high. Retry the IDN command when the usage level decreases, or remove some of the system activity that is causing the high usage level.
WARNING: IDN: 132: failed to add IDN DMV handler	The IDN driver failed to register its internal interrupt handler with the DMV-based kernel subsystem.	Reboot the domain, or unload the IDN driver and retry the operation. If this error persists, report the problem to your Sun service representative.
WARNING: IDN: 133: sigblock event area missing	The signature block event area that is used between the IDN driver and the SSP may be missing or corrupted.	Reboot the domain, or unload the IDN driver and retry the operation. If this error persists, report the problem to your Sun service representative.
IDN: 134: unable to mark boardset ( <i>BMASK</i> ) AWOL	This error returns a 16-bit board mask that indicates which boards in the domain could not be marked as AWOL so that they could be handled by the SSP.	Unlink the domain(s) in question, then relink them to the domain. You may need to reboot the domain or to unload the IDN driver before you retry the operation.
IDN: 135: idn: kstat_create failed	Unable to create the kstat structures. Thus, global kernel statistics for the IDN are not maintained.	Reboot the domain, and retry the command, if necessary.
WARNING: IDN: 136: " <i>property</i> " property not found, disabling IDN	The IDN driver failed to initialize because it did not find the specified OBP property.	Ensure that the SSP 3.2 software is on the SSP.
WARNING: IDN: 137: SMR size is 0, disabling IDN	The IDN driver failed to initialize because the OBP variable <i>idn-smr-size</i> is set to zero (0).	Reset the <i>idn-smr-size</i> variable to the appropriate value. The value must be the same for all of the domains in an IDN. Reboot the domain after you reset the value of the variable.
WARNING: IDN: 138: SMR size ( <i>numberMB</i> ) is too big (max = <i>numberMB</i> ), disabling IDN	The IDN driver failed to initialize because the value of the OBP variable <i>idn-smr-size</i> is too large.	Reset the <i>idn-smr-size</i> variable to the appropriate value. The value must be the same for all of the domains in an IDN. Reboot the domain after you reset the value of the variable.

**TABLE 2-2** IDN Domain-Specific Messages, 100 through 142 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 139: OBP region for SMR is 0 length	The IDN driver failed to initialize because the OBP variable <code>idn-smr-size</code> is set to zero (0).	Reset the <code>idn-smr-size</code> variable to the appropriate value. The value must be the same for all of the domains in an IDN. Reboot the domain after you reset the value of the variable.
WARNING: IDN: 140: OBP region ( <i>bytes</i> B) smaller than requested size ( <i>bytes</i> B)	The SMR region allocated by the OBP is smaller than the value of the OBP variable <code>idn-smr-size</code> .	Ensure that the SSP 3.2 software is running on the SSP, then reset the <code>idn-smr-size</code> variable to the appropriate value. The value must be the same for all of the domains in an IDN. Reboot the domain after you reset the value of the variable.
WARNING: IDN: 141: OBP region ( <i>PADDR</i> ) not on ( <i>hex_number</i> ) boundary	The SMR region allocated by OBP is not on the appropriate memory address boundary (64-Kbytes).	Ensure that the SSP 3.2 software is running on the SSP, then reboot the domain and retry the operation.
NOTICE: IDN: 142: link (domain <i>domain_ID</i> , cpu <i>CPUID</i> ) connected	The domain has been linked with domain <i>domain_ID</i> that hosts CPU <i>CPUID</i> .	Notification only

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242

Error	Description	Recovery
NOTICE: IDN: 200: link (domain <i>domain_ID</i> , cpu <i>CPUID</i> ) disconnected	The domain has been unlinked with domain <i>domain_ID</i> that hosts CPU <i>CPUID</i> .	Notification only
WARNING: IDN: 201: ( <i>IDNOP</i> ) invalid cpu-id ( <i>CPUID</i> )	During the IDN operation, the IDN driver specified an invalid ID number for the CPU.	Retry the IDN operation.
WARNING: IDN: 202: ( <i>IDNOP</i> ) invalid time-out value ( <i>seconds</i> )	An invalid time out value was passed to the IDN operation ( <i>IDNOP</i> = LINK/UNLINK).	Retry the IDN operation.
WARNING: IDN: 203: ( <i>IDNOP</i> ) invalid domain-id ( <i>domain_ID</i> )	An invalid domain ID was passed to the IDN operation ( <i>IDNOP</i> = LINK/UNLINK).	Retry the IDN operation.
WARNING: IDN: 204: domain <i>domain_ID</i> state ( <i>DSTATE</i> ) inappropriate	The domain <i>domain_ID</i> was not in the closed state when the IDN operation was executed.	Retry the IDN operation. If this error persists, unlink the domain.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 205: <i>(function)</i> failed to open-domain ( <i>domain_ID</i> , <i>CPUID</i> )	The internal IDN function <i>function</i> failed to open an IDN domain control structure for managing an IDN connection with domain <i>domain_ID</i> and CPU <i>CPUID</i> .	Wait a few minutes for the connection to be resolved. If the connection cannot be resolved, reboot domain <i>domain_ID</i> .
WARNING: IDN: 206: cannot link domains with equal votes ( <i>L(domain_ID)</i> , <i>R(domain_ID)</i> , <i>hex_number</i> )	The local domain, <i>domain_ID</i> , has the same vote ticket, <i>hex_number</i> , as the domain, <i>domain_ID</i> , to which it is trying to link. The vote tickets are determined internally and must be unique.	Reboot the local domain, then retry the operation. If the error occurs again, reboot domain <i>domain_ID</i> , then retry the operation. If the error persists, contact your Sun service representative.
WARNING: IDN: 207: local/remote master-id conflict ( <i>local_domain_ID.lmasterid</i> = <i>domain_ID_a</i> , <i>remote_domain_ID.rmasterid</i> = <i>domain_ID_b</i> )	The local domain, <i>local_domain_ID</i> , has a master ID, <i>domain_ID_a</i> , that conflicts with the master ID, <i>domain_ID_b</i> , of domain <i>remote_domain_ID</i> .	Retry the operation. If the error persists, reboot both of the domains, then retry the operation.
WARNING: IDN: 208: idn_select_master: unknown case ( <i>number</i> )	This is an internal error. During the selection of the master domain, the IDN driver encountered an unexpected case, <i>number</i> .	Retry the operation. If the error persists, reboot both of the domains, then retry the operation.
WARNING: IDN: 209: remote domain (id <i>domain_ID</i> , cpu <i>CPUID</i> ) reporting master (id <i>master_domain_ID</i> ) without cpuid	During the IDN operation, the remote domain, <i>domain_ID</i> , returned the ID of the master to the local domain, but not the CPU ID.	Retry the operation. If this error persists, reboot the remote domain.
WARNING: IDN: 210: failed to init MASTER context	This is an internal error. The local domain failed to initialize control structures that the domain needs to be a master domain.	Reboot the local domain, then retry the operation.
WARNING: IDN: 211: disconnect domain <i>domain_ID</i> , unexpected GSTATE ( <i>GSTATE</i> )	During the disconnect operation for domain <i>domain_ID</i> , the local IDN was in an unexpected global state, <i>GSTATE</i> .	Reboot the local domain, then retry the operation.
PANIC: IDN: 212: disconnect domain <i>domain_ID</i> , bad GSTATE ( <i>GSTATE</i> )	During the disconnect operation for domain <i>domain_ID</i> , the local IDN was in an unexpected global state, <i>GSTATE</i> .	Reboot the local domain, then retry the operation.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 213: no destination specified (d= <i>domain_ID</i> , c= <i>channel</i> , n=0xNE)	The local domain attempted to send a data packet to an inappropriate destination, domain ID <i>domain_ID</i> , on channel <i>channel</i> with the network ID <i>NE</i> .	Retry the operation. If this error persists, unlink the local domain, then relink it and retry the operation.
WARNING: IDN: 214: received message ( <i>MSG[0xM_number]</i> ) from self (domid <i>domain_ID</i> )	The local domain received an IDN connection protocol message, <i>MSG[0xM_number]</i> , from itself, domain ID <i>domain_ID</i> .	Reboot the local domain, then retry the operation.
WARNING: IDN: 215: invalid cookie ( <i>cookie</i> ) for message ( <i>M_number</i> ) from domain <i>domain_ID</i>	The local domain received an IDN connection protocol message, <i>M_number</i> , from domain <i>domain_ID</i> with an invalid or stale cookie, <i>cookie</i> .	Retry the operation. If this error persists, unlink the local domain and/or remote domain, then relink the local and/or remote domain.
WARNING: IDN: 216: ( <i>M_number</i> )msgtype/ ( <i>A_number</i> )acktype rcvd from domain <i>domain_ID</i>	The local domain received an invalid IDN connection protocol message or acknowledgement ( <i>M_number/A_number</i> ) from domain <i>domain_ID</i> .	Retry the operation. If this error persists, unlink the local and/or remote domain, then relink the local and/or remote domain.
WARNING: IDN: 217: unknown CFGARG type ( <i>type</i> ) from domain <i>domain_ID</i>	The local domain received an unexpected type, <i>type</i> , of configuration message from the remote domain, <i>domain_ID</i> .	Retry the operation. If this error persists, unlink the local and/or remote domain, then relink the local and/or remote domain.
WARNING: IDN: 218: missing some required config items from domain <i>domain_ID</i>	During the connection operation, the local domain did not receive all of the configuration information it expected from domain <i>domain_ID</i> .	Retry the operation. If this error persists, unlink the local and/or remote domain, then relink the local and/or remote domain.
WARNING: IDN: 219: remote domain <i>domain_ID</i> MTU ( <i>bytes</i> ) invalid (local.mtu = <i>bytes</i> )	The MTU size, <i>bytes</i> , received from domain <i>domain_ID</i> is not compatible with the MTU size of the local domain, <i>bytes</i> . The value of the IDN tunable parameter <i>idn_smr_bufsize</i> must be the same for all of the domains in an IDN.	Reset the value of the <i>idn_smr_bufsize</i> parameter on the local domain or the remote domain so that the values are the same.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 220: remote domain <i>domain_ID</i> BUFSIZE ( <i>bytes</i> ) invalid (local.bufsize = <i>bytes</i> )	The local domain received an SMR buffer size, <i>bytes</i> , from the remote domain that is not compatible with the SMR buffer size of the local domain. The value of the IDN tunable parameter <i>idn_smr_bufsize</i> must be the same for all of the domains in an IDN.	Reset the value of the <i>idn_smr_bufsize</i> parameter on the local domain or the remote domain so that the values are the same.
WARNING: IDN: 221: remote domain <i>domain_ID</i> SLABSIZE ( <i>bytes</i> ) invalid (local.slabsize = <i>bytes</i> )	The local domain received an SMR slab size, <i>bytes</i> , from domain <i>domain_ID</i> that is not compatible with the SMR slab size of the local domain. The value of the IDN tunable parameters <i>idn_slab_bufcount</i> and <i>idn_smr_bufsize</i> must be the same for all of the domains in an IDN.	Reset the slab size parameters on the local and/or remote domain.
NOTICE: 222: no IDN linkage found (b=BMASK_a, i=BMASK_b) upgrading unlink FTYPE -> FORCE_HARD	The SSP requested that the local domain be unlinked from the remote domain with boardmask <i>FTYPE</i> ; however, the SSP was unable to find a hardware link in the IDN hardware register board mask <i>BMASK_b</i> . The specified soft force option, -f, was upgraded to the hard force option, -F, to unlink the domain.	No action is required. The soft force option, -f, attempts to unlink all of the specified domains in the standard manner; however, if a time-out condition occurs due to the presence of an AWOL domain within the IDN, the <i>domain_unlink(1M)</i> command uses the -F option to remove the link, forcing the domain to be unlinked.
WARNING: IDN: 223: remote domain <i>domain_ID</i> NWRSIZE ( <i>Mbytes</i> ) invalid (local.nwrsiz = <i>Mbytes</i> )	The local domain received a value of the <i>idn_nwr_size</i> variable from the remote domain that does not match the value of <i>idn_nwr_size</i> on the local domain. The value of the <i>idn_nwr_size</i> variable must be the same for all of the domains in the IDN.	Reset the value of the <i>idn_nwr_size</i> variable for the remote domain.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 224: remote domain <i>domain_ID</i> <i>idn_max_nets</i> ( <i>number</i> ) invalid ( <i>local.maxnets</i> = <i>number</i> )	The local domain received a value of the <i>idn_max_nets</i> variable from the remote domain that does not match the value of <i>idn_max_nets</i> on the local domain. The value of the <i>idn_max_nets</i> variable must be the same for all of the domains in the IDN.	Reset the value of the <i>idn_max_nets</i> variable for the remote domain.
WARNING: IDN: 225: remote domain <i>domain_ID</i> <i>MBOX_PER_NET</i> ( <i>number</i> ) invalid ( <i>local.mboxpernet</i> = <i>number</i> )	The local domain received a value for the <i>idn_mbox_per_net</i> variable from the remote domain that does not match the value of <i>idn_mbox_per_net</i> on the local domain. The value of the <i>idn_mbox_per_net</i> variable must be the same for all of the domains in the IDN.	Reset the value of the <i>idn_mbox_per_net</i> variable for the remote domain.
WARNING: IDN: 226: remote domain <i>domain_ID</i> <i>CHECKSUM</i> flag ( <i>number</i> ) mismatches local domain's ( <i>number</i> )	The local domain received a value for the <i>idn_checksum</i> variable from the remote domain that does not match the value of <i>idn_checksum</i> on the local domain. The value of the <i>idn_checksum</i> variable must be the same for all of the domains in the IDN.	Reset the value of the <i>idn_checksum</i> variable for the remote domain.
WARNING: IDN: 227: missing some required config items from domain <i>domain_ID</i>	The local domain did not receive all of the expected configuration information from the remote domain, <i>domain_ID</i> .	Retry the link operation. If this error persists, reboot the remote domain, then retry the link operation.
WARNING: IDN: 228: master's SMR ( <i>bytes</i> ) larger than local's SMR ( <i>bytes</i> )	The size the SMR for the master domain is larger than the virtual space the local domain has available for the SMR. The OBP variable <i>idn-smr-size</i> must be the same for all of the domains in an IDN.	Reset the size of the <i>idn-smr-size</i> variable for the local domain and/or the remote domains so that the size is the same. Reboot the domain(s), then retry the link operation.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 229: remote domain <i>domain_ID</i> boardset ( <i>BMASK</i> ) conflicts with MCADR(board <i>number</i> ) [MCADR]	The local domain received conflicting information about the MCADR register from domain <i>domain_ID</i> . Board <i>number</i> is reported to have a MCADR setting, but it is not present in the physical board set <i>BMASK</i> of the remote domain. <i>MCADR</i> represents the actual MCADR register value.	Reboot domain <i>domain_ID</i> , then retry the operation.
WARNING: IDN: 230: remote domain <i>domain_ID</i> reported number of MCADRs ( <i>number</i> ) mixmatches received ( <i>number</i> )	The local domain received conflicting information about the MCADRs in domain <i>domain_ID</i> . The number of MCADRs specified by domain <i>number</i> does not match the number of MCADRs reported by that domain.	Reboot domain <i>domain_ID</i> , then retry the operation.
WARNING: IDN: 231: domain <i>domain_ID</i> boardset ( <i>BMASK</i> ) conflicts with existing IDN boardset ( <i>BMASK</i> )	The set of boards in the board mask <i>BMASK</i> for domain <i>domain_ID</i> overlap the existing boards <i>BMASK</i> in the IDN.	Ensure that the local domain has passed the power-on self-test (POST). Unlink the domain, then relink it.
WARNING: IDN: 232: domain <i>domain_ID</i> cpuset ( <i>CPUSER</i> ) conflicts with existing IDN cpuset ( <i>CPUSER</i> )	The set of CPUs in the CPU mask <i>CPUSER</i> for domain <i>domain_ID</i> overlap the existing CPUs <i>CPUSER</i> in the IDN.	Ensure that the local domain has passed the power-on self-test (POST). Unlink the domain, then relink it.
WARNING: IDN: 233: domain <i>domain_ID</i> missing cpu per memory boardset ( <i>BMASK</i> ), cpu boardset ( <i>BMASK</i> )	Each system board in the domain <i>domain_ID</i> must have at least one CPU if it hosts memory. Board set <i>BMASK</i> represents the board that have memory, and board set <i>BMASK</i> represents the boards that have at least one CPU.	Ensure that the domain you want to link has system boards that host at least one CPU on each board that hosts memory.
WARNING: IDN: 234: failed to program hardware for domain <i>domain_ID</i> (boardset = <i>BMASK</i> )	The IDN driver was unable to program the hardware for the local domain to allow shared memory access with domain <i>domain_ID</i> , which contains the board set <i>BMASK</i> .	Do not execute additional IDN operations. When appropriate, halt domain <i>domain_ID</i> , and run a full diagnostic test by using the hpost(1M) command.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 235: [MBXTYPE] mailbox (domain <i>domain_ID</i> , channel <i>channel</i> ) SMR CORRUPTED - RELINK	The local domain detected that the send and/or receive mailbox <i>MBXTYPE</i> control area is corrupted for domain <i>domain_ID</i> . These messages indicate the expected and actual values of the cookie and checksum control information. Depending on the condition, an additional message is displayed containing additional control information that is used for synchronization during data transmissions (activeptr and readyptr).	Unlink the master domain, then relink it. If this error persists, dismantle the entire IDN, then reassemble it.
IDN: 235: [MBXTYPE] expected (cookie <i>cookie</i> , cksum <i>hex_number</i> ), actual (cookie <i>cookie</i> , cksum <i>hex_number</i> )		
IDN: 235: [MBXTYPE] activeptr (VADDR), readyptr (VADDR)		
WARNING: IDN: 236: domain ( <i>host</i> ) [id <i>domain_ID</i> ] not responding to <i>IDN_command</i> [#number]	The local domain attempted to connect or disconnect domain <i>host</i> or domain ID <i>domain_ID</i> with CPU ID <i>CPUID</i> ; however, the domain is not responding. <i>number</i> represents the number of detected AWOL messages.	Unlink domain <i>host</i> , then retry the link operation.
WARNING: IDN: 236: domain [id <i>domain_ID</i> , cpu <i>CPUID</i> ] not responding to <i>IDN_command</i> [#number]		
WARNING: IDN: 237: invalid number ( <i>number</i> ) of protocol servers	The specified number of IDN protocol servers is invalid. The value of the idn.conf(4) tunable parameter <i>idn_protocol_nservers</i> must be greater than zero (0).	Reset the value of the <i>idn_protocol_nservers</i> parameter in the idn.conf(4) file to an appropriate number.
WARNING: IDN: 238: kmem_cache_create (jobcache) failed	The kernel failed to create an internal cache for allocating IDN job control data structures.	Reboot the local domain, then retry the link operation. If this error persists, remove unused software from the domain, and retry the link operation.
WARNING: IDN: 239: invalid cpuid ( <i>CPUID</i> ) specified for IDN net <i>channel</i>	An invalid CPU ID, <i>CPUID</i> , was specified for the local domain. <i>channel</i> represents the network interface for the IDN data server thread.	Retry the operation with a valid CPU ID for the local domain.

**TABLE 2-3** IDN Domain-Specific Messages, 200 through 242 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 240: (channel <i>channel</i> ) SMR CORRUPTED - RELINK IDN: 240: (channel <i>channel</i> ) cookie (expected <i>cookie</i> , actual <i>cookie</i> ) IDN: 240: (channel <i>channel</i> ) actv_flg (expected <i>hex_number</i> , actual <i>hex_number</i> ) IDN: 240: (channel <i>channel</i> ) ready_flg (expected <i>hex_number</i> , actual <i>hex_number</i> )	The IDN data server for network interface <i>channel</i> encountered corrupted data in the SMR. The expected and actual values for control information that is used by the data server are included (cookie, actv_flg, and ready_flg). Subsequent data transmissions are likely to fail.	Unlink the master domain, then relink it. If this error persists, dismantle the IDN, then reassemble it.
WARNING: IDN: 241: [operation] (domain <i>domain_ID</i> , channel <i>channel_ID</i> ) SMR CORRUPTED - RELINK	The IDN driver attempted to transmit or receive data to or from an IDN mailbox in the SMR; however, the SMR was corrupted. The operation is designated as operation, send or recv, in the message. Future data transmissions are likely to fail.	Unlink the master domain, then relink it. If this error persists, dismantle the IDN, then relink the domains.
WARNING: IDN: 242: maximum channels ( <i>number</i> ) already open	You cannot plumb more network interfaces than the IDN driver is configured to support.	Reset the idn.conf(4) tunable idn_max_nets, then retry the operation.

**TABLE 2-4** IDN Domain-Specific Messages, 300 through 307

Error	Description	Recovery
WARNING: IDN: 300: no slab allocations without a master	The slave domain attempted to allocate a slab of memory without a master domain being present.	If this error persists, unlink the local domain, then relink it.
WARNING: IDN: 301: ( <i>SMROP</i> ) unknown slab state ( <i>slab_state</i> ) for domain <i>domain_ID</i>	This is an internal error, indicating that a SMR slab was in an unexpected state for domain ID <i>domain_ID</i> , with respect to slab operation <i>SMROP</i> .	Unlink the local domain, then relink it.
WARNING: IDN: 302: no slab free without a master	The slave domain attempted to free up a slab of memory without the master domain being present.	If this error persists, unlink the local domain, then relink it.

**TABLE 2-4** IDN Domain-Specific Messages, 300 through 307 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 303: buffer len <i>bytes</i> > IDN_DATA_SIZE ( <i>bytes</i> )	The local domain attempted to allocate an SMR buffer with a length greater than the length supported by the IDN configuration.	Unlink the local domain, then relink it.
WARNING: IDN: 304: buffer ( <i>VADDR</i> ) from domain <i>domain_ID</i> not on a <i>hex_number</i> boundary	An SMR buffer at kernel virtual address <i>VADDR</i> was received from domain ID <i>domain_ID</i> ; however, it was not aligned on the expected boundary <i>hex_number</i> (in bytes).	Unlink the local domain and/or domain <i>domain_ID</i> , then relink the local domain and/or domain <i>domain_ID</i> .
WARNING: IDN: 305: buffer length ( <i>bytes</i> ) from domain <i>domain_ID</i> greater than IDN_DATA_SIZE ( <i>bytes</i> )	An SMR buffer of length <i>bytes</i> was received from domain ID <i>domain_ID</i> ; however, the length was greater than the length that is supported by the local domain ( <i>bytes</i> in bytes).	Unlink the local domain and/or domain <i>domain_ID</i> , then relink the local domain and/or domain <i>domain_ID</i> .
WARNING: IDN: 306: unknown buffer ( <i>hex_number</i> ) from domain <i>domain_ID</i>	The local domain received a request for a domain ID, <i>domain_ID</i> , that was not in the expected range of valid domain IDs (that is, 0 to 15).	If this error persists, unlink the local domain, then relink it.
WARNING: IDN: 307: domain id ( <i>domain_ID</i> ) invalid	The SMR subsystem received a request for a domain ID <i>domain_ID</i> that was not in the expected range of valid domain IDs (that is, 0 to 15).	If this error persists, unlink the local domain, then relink it.

**TABLE 2-5** IDN Domain-Specific Messages, 400 through 450

Error	Description	Recovery
WARNING: IDN: 400: corrupted MAC header (exp <i>hex_number</i> or 0xffff, act <i>hex_number</i> )	The MAC header in the SMR data packet contained bad data.	Unlink the local domain, then relink it. If this error persists, dismantle the IDN, and reassemble it.
IDN: 450: idn <i>X</i> : kstat_create failed	Unable to create the kstat structures. No per-instance kernel statistics will be maintained for the IDN.	Reboot the local domain if you need the per-instance kernel statistics to be maintained.

**TABLE 2-6** IDN Domain-Specific Messages, 500 through 516

Error	Description	Recovery
WARNING: IDN: 500: failed to write sm_bar (lsb/msb) ( <i>hex_number</i> )	While programming the SMR, the local domain failed to write the (lsb/msb) portion of the shared memory base-address-register with value <i>hex_number</i> .	Do not perform IDN operations. When appropriate, halt the local domain, and run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 501: failed to write sm_lar (lsb/msb) ( <i>hex_number</i> )	While programming access to the SMR, the local domain failed to write the (lsb/msb) portion of the shared memory limit-address-register with value <i>hex_number</i> .	Do not perform IDN operations. When appropriate, halt the local domain, and run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 502: unable to store data ( <i>hex_number</i> ) to CIC buffer ( <i>PADDR</i> )	While programming access to the SMR, the local domain failed to write to the CIC (Coherency Interface Controller) <i>prep</i> buffer with the data <i>hex_number</i> .	Do not perform IDN operations. When appropriate, halt the local domain, and run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 503: ( <i>PCPROG</i> ) failed to update PC madr (expected 0xFFFF, actual <i>hex_number</i> )	While programming access to the SMR during the <i>PCPROG</i> (invalidate or validate) phase, the local domain failed to write a memory address decoding register (MADR) entry to the port controller (PC).	Do not perform IDN operations. When appropriate, halt the local domain, and run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 504: ( <i>PCPROG</i> ) failed to update IOPC madr (expected <i>hex_number</i> , actual <i>hex_number</i> )	While programming access to the SMR during the <i>PCPROG</i> (invalidate or validate) phase, the local domain failed to write a memory address decoding register (MADR) entry of the I/O port controller (IOPC).	Do not perform IDN operations. When appropriate, halt the local domain, and run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 505: board <i>number</i> mising any valid PCs	Board <i>number</i> does not contain valid port controllers (PCs).	Do not perform IDN operations. When appropriate, halt the local domain to ensure that board <i>XX</i> hosts the appropriate hardware. You may need to run a full diagnostic test by using the <code>hpost(1M)</code> command.
WARNING: IDN: 506: cic sm_mask is not writable	The CIC has been programmed by POST to not let the operating system level software to manipulate the shared-memory mask register.	Ensure that the SSP 3.2 software is running on the SSP. Run a full diagnostic test on the board by using the <code>hpost(1M)</code> command.

**TABLE 2-6** IDN Domain-Specific Messages, 500 through 516 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 507: failed to map-in post2obp structure	The local domain did not successfully map in the POST2OBP data structure to the address space of the kernel.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 508: post2obp checksum invalid	The POST2OBP data structure that was passed from POST to OBP appeared invalid. The expected checksum value did not match the value that is reported by the data structure.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 509: cpu <i>CPUID</i> never responded to CIC update	While programming the SMR for access during the parallel update of the CIC registers phase, CPU <i>CPUID</i> did not respond to the update request.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 510: failed write-smregs (bd= <i>number</i> , bs= <i>bus</i> , sm(bar= <i>bar</i> , lar= <i>lar</i> )	The local domain failed to update all of its shared memory registers. The specific failure occurred on system board <i>number</i> , interconnect bus <i>bus</i> , with base/limit-address-register contents of <i>bar/lar</i> , respectively.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 511: update-one (cpu= <i>CPUID</i> , bd= <i>number</i> ) time conflict	A stale IDN-hardware update operation was encountered during the update of the shared memory registers across the system.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 512: failed [add/delete] write-madr (bd= <i>number</i> , rbd= <i>remote_number</i> , madr= <i>hex_number</i> )	The local domain failed to update (to add and/or to delete) the PC memory address decoding registers on board <i>number</i> with respect to the remote board, <i>remote_number</i> . The <i>hex_number</i> value represents the targeted register contents.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 513: sm-mask error (expected = <i>hex_number</i> , actual = <i>hex_number</i> )	The local domain encountered inconsistent or unexpected values in the shared memory mask of the CIC.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 514: sm-base error (expected = <i>hex_number</i> , actual = <i>hex_number</i> )	The local domain encountered inconsistent or unexpected values in the shared memory base register of the CIC.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.

**TABLE 2-6** IDN Domain-Specific Messages, 500 through 516 (*Continued*)

Error	Description	Recovery
WARNING: IDN: 515: sm-limit error (expected = <i>hex_number</i> , actual = <i>hex_number</i> )	The local domain encountered inconsistent or unexpected values in the shared memory limit register of the CIC.	Halt the local domain, then reboot it. After it reboots, relink it to the IDN.
WARNING: IDN: 516: ( <i>local/remote</i> ) board <i>number</i> has memory, but no cpus - CPU-PER-BOARD REQUIRED	The local domain detected that a local or remote, <i>local/remote</i> , system board, <i>number</i> , contains memory, but no CPUs. In an IDN, each system board that hosts memory must also host at least one CPU.	Halt the local or remote domain, then check its hardware configuration. If it does not host a CPU, place it in the blacklist, then relink the domain.