Log Message Overview

The following table lists all log messages the Cisco DVB Interactive Network Adapter INA2320 can generate. These messages are displayed in the Cable DVB/DAVIC Management Program in the Log window, see "INA Log Function" section on page 3-18.

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Table D-1   Log messages available from the Cisco DVB INA2320

Code	Type	Message text	Description
00210000	Information	INA initialized successfully	The INA has started successfully.
00210001	Error	Normal memory allocation error	The INA was not able to start because the specified configuration requires too much normal RAM. One or more of the following values must be decreased: Basic/Max Broadcast Connections Vc/Vc Max Connections Modem/Md Max Count Ip/Max Vcs Ip/Max Cache Addresses
00210002	Error	I/O memory allocation error	The INA was not able to start because the specified configuration requires too much I/O RAM. One or more of the following values must be decreased: Basic/No Rx Broadcast Buffers Basic/Max Broadcast Frame Size Ip/Max Upstream Rx Buffers Ip/Max Downstream Rx Buffers

Table D-1   Log messages available from the Cisco DVB INA2320 (continued)

Code	Type	Message text	Description
00270000	Error	Failed to initialize the demodulator hardware. Error = <Error code>	The demodulator driver was not able to initialize the demodulator hardware because of a hardware problem. The following error codes can be returned: Error codesDescription 0x00270001Error loading FPGA 0x00270002Error initializing STEL module 0x00270003Error using I2C bus 0x00270004Error initializing Read-Solomon decoder 0x00270005Error one or more adapters not found 0x00270006Error software configuration error
00270001	Warning	No cells received in the past 60 minutes for demodulator <nn>	No ATM cells have been received on the demodulator <nn> for the last 60 minutes. The reason can be: There is no user on the network The network configuration is wrong The demodulator does not function properly
00260000	Error	Failed to initialize the modulator hardware. Error = <Error code>	The modulator driver was not able to initialize the modulator hardware because of a hardware problem. The following error codes can be returned: **Error codesDescription** 0x00260001Modulator adapter not found 0x00260002More than one modulator adapter found 0x00260003Base address error 0x00260004Interrupt number error 0x00260005Error loading FPGA 0x00260006Error programming FIFO 0x00260007Error programming modulation chip 0x00260008Operation system error
00260001	Error	Transmission error. No connection to the modulator adapter.	A DMA of data to the modulator has not been possible. This is probably caused by a hardware error. Restart the INA. If this does not help, contact your service partner.
00260002	Error	No interrupts received from the modulator adapter.	The modulator has stopped generating interrupts. The INA can not work without these interrupts. Restart the INA. If this does not help, contact your service partner.

Table D-1   Log messages available from the Cisco DVB INA2320 (continued)

Code	Type	Message text	Description
00260003	Error	No MAC upstream marker ready for 3 ms transmission.	Every 3 ms the MAC protocol in the INA must send a MAC upstream marker frame on the downstream. If the INA (for some reason) has not had time to generate this frame in a 3 ms period, this message is generated. This message should normally not be generated; if this message is generated with long intervals (> 5 minutes), then there is no reason to take any action on it. If the message is generated more frequently, contact your system administrator.
00260004	Error	Wrong number of 1 ms interrupts received from modulator. 60000 interrupts in \<nn> seconds.	The modulator is not generating the correct number of interrupts. This is normally only caused by a hardware error. The cause for this error can be a change of inaDate and inaTime.
00280000	Warning	Modem power ranging error, offset: \<nn> dB, Demod: \<d>, Mac: \<ma>	A modem was not allowed to sign on to the INA, because the modem was not able perform correct power ranging. \<nn> is the power offset in dB referring to the demodulator "Signal Level", see the "INA Demodulator Setup" section on page 3-34. This is the offset to what the INA accepts the modem is sending with. The acceptable modem power transmission power level is configured by the two configuration variables: "Min Power Level" and "Max Power Level" in INA MAC, page 3-36, \<d> is the number of the demodulator module receiving data from the cable modem. \<ma> is the MAC address of the cable modem.
00280001	Warning	Modem timing ranging error, offset: \<nn> us, Demod: \<d>, Mac: \<ma>	A modem was not allowed to sign on to the INA as the modem was not able perform correct timing ranging. \<nn> is the time offset in ns (offset to what the INA accept) the modem is sending with. The acceptable range depend on the used demodulator bandwidth (Demodulator/Dm Bandwidth Type): 1 MHz: + - 972 ns 2 MHz: + - 486 ns \<d> is the number of the demodulator receiving data from the cable modem. \<ma> is the MAC address of the cable modem.

Table D-1   Log messages available from the Cisco DVB INA2320 (continued)

Code	Type	Message text	Description
00280002	Warning	Modem shutdown after ranging, power and time ok, Demod: <d>, Mac:<ma>, S,E,R: <ss>,<ee>, <rr> Modem shutdown - NOT due to ranging, Demod: <d>, Mac: <ma>, S,E,R: <ss>,<ee>, <rr>	A modem is shut down by the INA. <d> is the number of the demodulator receiving data from the modem. <ma> is the MAC address of the modem. <ss>,<ee>,<rr> tells the reason for the shutdown. <rr> can have one of the following values: 00 : Undefined reason. 01 : Shutdown requested by higher level protocol layer. 02 : Time Out: Too many retries. 03 : Calibration: Too many retries. 04 : Connect Response message received with illegal Connection ID. 05 : Release Response message received with illegal Connection ID. 06 : Reservation ID Response message received with illegal Connection ID. In case of unexpected shutdown, please write the message down and contact the system responsible.
00280003	Error	MAC protocol memory requirements error: 0x<xx>	<xx> can have one of the following values: 00280001Illegal Initialization Sequence. Contact your service partner. 00280003Illegal Downstream Frequency. Less than 1 MHz. Change the value of the configuration variable. 00280004Illegal Upstream Frequency. Less than 1 MHz. Change the values of the configuration variables. 00280005Illegal Upstream Data Rate. Only 1.544 and 3.088 Mbps supported. Change the values of the configuration variables.
00280004	Error	MAC protocol initialize error: 0x<xx>	<xx> can have the following value: 00280001Illegal Initialization Sequence. Please contact your service partner.
00280005	Error	MAC protocol start error: 0x<xx>	<xx> can have one of the following values: 00280001Illegal Initialization Sequence. Please contact your service partner. 00280002The MAC receive buffer pool cannot be allocated. Contact your service partner.

Table D-1   Log messages available from the Cisco DVB INA2320 (continued)

Code	Type	Message text	Description
00280006	Error	MAC protocol configuration error: Message: \<xx\>,\<xx\> \<xx\>,\<xx\> \<xx\>,\<xx\>	Attempt to send a MAC message with illegal Message Configuration. Write the message down and contact your service partner.
00280007	Warning	MAC Protocol. Lost MAC messages: \<pp\> periods = \<p\>, \<tt\> total, \<mm\> max	Attempt to send more MAC messages than possible. If the message is generated frequently (every few minutes), write some of the messages down and contact your system responsible.