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1. SmartClass Ethernet Tester User's Guide 2. SmartClass Ethernet Tester User's Guide 3. SmartClass Ethernet Tester User's Guide Notice Every effort was made to ensure that the information in this document was accurate at the time of printing. However, information is subject to change without notice, and JDSU reserves the right to provide an update with information not available at the time the document was printed. Copyright © 2009 JDSU. All rights reserved. JDSU, Enabling Broadband and the JDSU logo are trademarks of JDSU. JDSU Uniphase, JDSU, and SmartClass are trademarks or registered trademarks of JDSU Uniphase Corporation in the United States and/or other coun-tries. Microsoft and Excel are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other coun-tries. Energizer is either a trademark or registered trademark of Eveready Battery Company, Inc. in the United States and/or other countries. Specifications, terms, and conditions are subject to change without notice. All trademarks and registered trademarks are the property of their respective companies. Ordering Information This guide is a product of JDSU's Technical Information Development Depart-ment, issued as part of the SmartClass Ethernet Tester. The catalog number for a printed guide is ML-5053901. The catalog number for a CD containing all user documentation and utilities is CML-21099708. Federal Communications Commission (FCC) Notice This product was tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to pro- vide reasonable protection against harmful interference when the equipment is operated in a commercial or residential environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. The authority to operate this product is conditioned by the requirements that no modifications be made to the equipment unless the changes or modifications are expressly approved by JDSU. Industry Canada Requirements This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conformé à la norme NMB-003 du Canada. EMC Directive Compliance This product was tested and conforms to the EMC Directive, 89/326/EEC as amended by 92/31/EEC, 92/27/EEC, 92/24/EEC, 92/25/EEC, 92/26/EEC, 92/28/EEC, 92/29/EEC, 92/30/EEC, 92/31/EEC, 92/32/EEC, 92/33/EEC, 92/34/EEC, 92/35/EEC, 92/36/EEC, 92/37/EEC, 92/38/EEC, 92/39/EEC, 92/40/EEC, 92/41/EEC, 92/42/EEC, 92/43/EEC, 92/44/EEC, 92/45/EEC, 92/46/EEC, 92/47/EEC, 92/48/EEC, 92/49/EEC, 92/50/EEC, 92/51/EEC, 92/52/EEC, 92/53/EEC, 92/54/EEC, 92/55/EEC, 92/56/EEC, 92/57/EEC, 92/58/EEC, 92/59/EEC, 92/60/EEC, 92/61/EEC, 92/62/EEC, 92/63/EEC, 92/64/EEC, 92/65/EEC, 92/66/EEC, 92/67/EEC, 92/68/EEC, 92/69/EEC, 92/70/EEC, 92/71/EEC, 92/72/EEC, 92/73/EEC, 92/74/EEC, 92/75/EEC, 92/76/EEC, 92/77/EEC, 92/78/EEC, 92/79/EEC, 92/80/EEC, 92/81/EEC, 92/82/EEC, 92/83/EEC, 92/84/EEC, 92/85/EEC, 92/86/EEC, 92/87/EEC, 92/88/EEC, 92/89/EEC, 92/90/EEC, 92/91/EEC, 92/92/EEC, 92/93/EEC, 92/94/EEC, 92/95/EEC, 92/96/EEC, 92/97/EEC, 92/98/EEC, 92/99/EEC, 93/1/EEC, 93/2/EEC, 93/3/EEC, 93/4/EEC, 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specify the VLAN ID and user priority for the filtered frames. To analyze Q-in-Q tagged frames, select - Q-in-Q, and then specify the SVLAN ID, priority, and TPI for the filtered frames. If you do not want to filter frames based on their tagged status, select - Don't Care Rx User Priority (if Rx Tagging is Tagged) To filter VLAN tagged frames based on their user priority. - Select the priority from the menu. If you do not want to filter frames based on their user priority, select - Don't Care Rx VLAN ID (if Rx Tagging is Tagged) Specify the VLAN ID for analyzed frames. Setting Parameters 47. Chapter 3 Ethernet Testing BER testing 34 SmartClass Ethernet Tester User's Guide BER testing If you are testing on a switched Ethernet network, when you perform an end-to-end test you can transmit BERT patterns in the frame payload to determine the ratio of erroneous bits to the total bits received. To transmit a BER pattern 1 If you haven't already done so, launch a layer 2 test application (see "Launching an Ethernet test application" on page 22), and then establish a link (see "Initializing the link" on page 22). 2 On the Configuration menu, select Payload Settings, specify a BERT payload, and then select the pattern to transmit in the payload (see "Specifying payload settings" on page 26 3 If you need to specify other settings for the test, press Cancel to return to the Configuration menu; otherwise, proceed to step 4. 4 Press the Start key. A message appears indicating that the test has started. 5 Verify that the Frame LED is green, indicating that frames have been detected. 6 Optional. If you want to insert a bit error, press the Action key, and then select Insert Bit Error. The tester transmits traffic with the BERT pattern in the payload over the link. Results associated with BER testing appear in the BERT results category (see "L2 BERT Stats results" on page 87). Measuring service disruption time You can use two Ethernet Tester's in an end-to-end test to measure the service disruption time resulting from a switch in service to a protect line. The testers determine the amount of time it takes to re-establish a layer 2 link by measuring the maximum inter-frame gap that occurred (due to a loss of frames) while the service was disrupted. This allows you to verify that the gap did not exceed the 50 ms duration expected and specified in most service level agreements. To measure service disruption time 1 If you haven't already done so, launch a layer 2 test application (see "Launching an Ethernet test application" on page 22), and then establish a link (see "Initializing the link" on page 22). 2 Configure the near end tester for your test (see "Specifying L2 test application settings" on page 24). 3 Configure the far end tester for a CONSTANT load of traffic at the maximum bandwidth. 4 Do the following: a Press the Start key. A message appears indicating that traffic has started. b Press the Action key, and then select Restart. 48. Chapter 3 Ethernet Testing Inserting errors or pause frames SmartClass Ethernet Tester User's Guide 35 The tester measures service disruption time, and displays the measurement as the Service Disrupt(s) result in the Link Stats category (see "Link Stats results" on page 81). Inserting errors or pause frames You can use the Ethernet Tester to insert errors or pause frames when you perform end-to-end and loopback tests. The following errors can be inserted when the tester is transmitting traffic: - FCS errors. - Bit errors. If you configured your tester to transmit a BERT payload, you can insert bit errors into the traffic stream. Pause frames can be inserted at any time (the tester does not have to transmit traffic beforehand). To insert errors or pause frames 1 If you haven't already done so, launch a layer 2 test application (see "Launching an Ethernet test application" on page 22), and then establish a link (see "Initializing the link" on page 22). 2 Configure the near end tester for your test (see "Specifying L2 test application settings" on page 24), and then do the following: a Press the Start key. A message appears indicating that traffic has started. b Display the Error menu, and then select the option corresponding to the type of error or frame you want to insert. For example, to insert an FCS error, select Insert FCS Error, or to insert a pause frame, select Pause Frame. Errors or pause frames are inserted into the traffic stream. Transmitting layer 2 patterns Using the Ethernet Tester, you can stress the jitter and noise characteristics of optical Gigabit Ethernet components and systems by transmitting continuous random test patterns (CRPAT), continuous jitter test patterns (CJPAT), and the compliant supply noise pattern (CSPAT). To transmit patterns 1 Launch the L2 Pattern Test for Optical Ethernet (see "Launching an Ethernet test application" on page 22), and then establish a link (see "Initializing the link" on page 22). 2 On the Configuration menu, select Pattern, and then specify one of the following patterns for the test: Pattern Emulates CRPAT A worst case scenario for deterministic jitter by transmitting frames with a broad spectral content. 49. Chapter 3 Ethernet Testing Loopback testing 36 SmartClass Ethernet Tester User's Guide 3 If you need to specify other settings for the test (such as enabling a timed test or turning the laser off), press Cancel to return to the Configuration menu; otherwise, proceed to step 4. 4 Press the Start key. A message appears indicating that the test has started. 5 Verify that the Frame LED is green, indicating that frames have been detected. The tester transmits the pattern. Loopback testing Depending on the software options loaded on your Ethernet Tester, you can: - Operate the tester as a loopback device (looping all received traffic through the tester and back to the traffic originating tester) using the dedicated L2 Loopback application. This application is provided standard with every Ethernet Tester. - Generate and loop back traffic using the L2 Traffic application for end-to-end testing. The TRAFFIC option must be purchased and installed to generate and loop back traffic using this application. Using the L2 Loopback application You can put your Ethernet Tester into loopback mode to loop traffic through the tester and back to a traffic originating tester. When you select this application, your tester simply operates as a loopback device. To loop traffic through your near end tester 1 Launch the L2 Loopback application (see "Launching an Ethernet test application" on page 22), and then establish a link (see "Initializing the link" on page 22). 2 On the Configuration menu, select Ethernet Settings, and then specify values for the following: CJPAT Stress the timing margins in the received eye by exposing the data sampling circuits to large systematic phase jumps. CSPAT Emulate a worse case scenario for power supply noise within network transceivers. Pattern Emulates Setting Parameters Src MAC Type - Factory Default - loops back traffic with the factory assigned MAC address as the source address. - User Defined - loops back traffic with a user assigned MAC address as the source address. If you select User Defined, be certain to specify the Src Addr. Src Addr Type the source address carried in transmitted frames. 50. Chapter 3 Ethernet Testing Loopback testing SmartClass Ethernet Tester User's Guide 37 3 Optional. You can optionally specify VLAN or Q-in-Q settings for looped back traffic. See "Specifying VLAN or Q-in-Q settings" on page 27. 4 Optional. You can optionally filter the traffic before looping it back. Only traffic that passes the filter criteria will be looped back to the traffic originating tester. 51. Chapter 3 Ethernet Testing Starting or restarting a test 38 SmartClass Ethernet Tester User's Guide 3 On the far end tester, verify that the Frame LED is green, indicating that the frames transmitted from the near end tester have been detected. Traffic is transmitted and looped through the tester on the far end. To loop down the far end tester 1 On the near end tester, press the Start key to stop traffic. 2 Press the Action key, and then select Loop Down. The tester on the far end is looped down, and the remote loop status in the Link Status results changes to DOWN. Starting or restarting a test After you initialize an Ethernet link and configure your test, you are ready to start or restart the test. To start or restart the test 1 If you haven't already done so, launch your test application (see "Launching an Ethernet test application" on page 22), initialize the Ethernet link (see "Initializing the link" on page 22), and configure the test (see "Specifying L2 test application settings" on page 24). 2 Press the # Start key. The tester clears your test results, the test restarts, and the tester transmits the traffic you configured. The test starts or restarts. Stopping traffic To stop traffic - Press the # Start key. The tester stops transmitting traffic and freezes the results display. Running a timed test You can run timed tests by enabling the test, specifying the duration for the test, and then starting the test. The test will run for the number of minutes you specified as the duration, and then it will stop automatically. NOTE You can also start or restart a test by pressing the Action key, and then selecting the corresponding option on the Action menu. NOTE: The Start key is used to START and STOP traffic. 52. Chapter 3 Ethernet Testing Running a timed test SmartClass Ethernet Tester User's Guide 39 To run a timed test 1 If you haven't already done so, launch your test application (see "Launching an Ethernet test application" on page 22), initialize the Ethernet link (see "Initializing the link" on page 22), and configure the test (see "Specifying L2 test application settings" on page 24). 2 On the Configuration menu, select Timed Test, and then do the following: a Set the Timed Test Enable setting to ON. b Specify the Time Duration (sec) in seconds. 3 Press the Start key to run the test. 53. Chapter 3 Ethernet Testing Running a timed test 40 SmartClass Ethernet Tester User's Guide 54. 4 SmartClass Ethernet Tester User's Guide 41 Chapter 4 IP Testing Initializing the Ethernet link SmartClass Ethernet Tester User's Guide 43 A message briefly appears stating that the tester is launching the test application, then a test menu appears for the application, listing the following options: - Configuration. Select this option to configure your test. - Results. Select this option to observe test results associated with your test. - Action (*). Select this option to perform key actions required for your test, such as starting or restarting a test, starting traffic or looping up a tester. You can also press the Action button at any time to view a menu of actions applicable to your test. - Error. Select this option to insert errors or pause frames as you test. The tester launches the test application, and if you selected an optical test application, turns the laser ON. You are ready to initialize the Ethernet link (see "Initializing the Ethernet link" on page 43). Initializing the Ethernet link Initializing an Ethernet link involves specifying the settings required to establish connectivity with another Ethernet device on a circuit (link), such as auto-negotiation, flow control, and speed and duplex settings (for 10/100 electrical traffic only). For details on link initialization, see "Initializing the link" on page 22 of Chapter 3 "Ethernet Testing". Specifying L3 test application settings Before transmitting traffic over a link, you can specify settings that characterize the traffic and indicate the type of traffic load to transmit. You can also specify settings that filter received traffic for analysis. Specifying Ethernet settings Before you transmit layer 3 IP traffic, you can specify the Ethernet characteristics of the traffic. This involves indicating whether you want to configure transmitted traffic using a frame or packet format, and specifying the frame type and frame or packet length. You can also optionally specify the source address for the transmitted traffic. To specify Ethernet settings 1 If you haven't already done so, launch a layer 3 test application (see "Launching an IP test application" on page 42), and then establish a link (see "Initializing the link" on page 22). 2 On the Configuration menu, select Ethernet Settings, and then specify values for the following: Setting Parameters Frame Type - DIX - 802.3 Length Type - Frames - Packets 57. Chapter 4 IP Testing Specifying L3 test application settings 44 SmartClass Ethernet Tester User's Guide 3 If you need to specify other settings for the test (such as enabling a timed test or turning the laser off), press Cancel to return to the Configuration menu; otherwise, proceed to step 4. 4 Press the Start key. A message appears indicating that the test has started. The tester transmits traffic with the characteristics you specified. Specifying payload settings Before you transmit layer 3 traffic, you can specify whether the traffic should carry an Acterna, or Fill Byte payload. You must transmit an Acterna payload to measure round trip delay, service disruption time, or out of sequence frames. To specify payload settings 1 If you haven't already done so, launch a layer 3 test application (see "Launching an IP test application" on page 42), and then establish a link (see "Initializing the Ethernet link" on page 43). 2 On the Configuration menu, select Payload Settings, and then specify values for the following settings: Frame Length - User Defined - Jumbo - Random. Select Random to send frames with randomly generated, predefined RFC 2544 traffic lengths. User Length Jumbo Length If you specified User Defined or Jumbo as the Frame Length, specify a value falling within the range displayed on the user interface. Src MAC Type - Default - sends traffic with the factory assigned MAC address as the source address. - User Defined - sends traffic with the user assigned MAC address as the source address. If you select User Defined, be certain to specify the Src Addr. Src Addr Type the source address carried in transmitted frames. Unit Identifier Enter an ID for the tester using up to ten characters. This ID is used to identify the tester during loopback testing. Setting Parameters Setting Parameter Payload - Acterna - Fill Byte Fill Byte Enter the fill byte pattern carried in the payload using a hexadecimal format. 58. Chapter 4 IP Testing Specifying L3 test application settings SmartClass Ethernet Tester User's Guide 45 3 If you need to specify other settings for the test, press Cancel to return to the Configuration menu; otherwise, proceed to step 4. 4 Press the Start key. A message appears indicating that the test has started. The tester transmits traffic with the payload you specified. Specifying VLAN, Q-in-Q, or MPLS settings Before transmitting layer 3 traffic, you can specify settings that indicate the tester should transmit VLAN (virtual LAN), Q-in-Q, or MPLS tagged traffic. This allows you to verify that an Ethernet link supports the encapsulated traffic. The tester can also analyze received traffic to verify that the required bandwidth is allocated to tagged traffic on a link and determine that VLAN, Q-in-Q (SVLAN), or MPLS prioritization is functioning properly. For details on VLAN and Q-in-Q tagging, see "Specifying VLAN or Q-in-Q settings" on page 27 of Chapter 3 "Ethernet Testing". To specify MPLS settings 1 If you haven't already done so, launch a layer 3 test application (see "Launching an IP test application" on page 42), and then establish a link (see "Initializing the link" on page 22). 2 On the Configuration menu, select Tagging Settings, and then specify values for the following: 3 If you need to specify other settings for the test, press Cancel to return to the Configuration menu; otherwise, proceed to step 4. 4 Press the Start key. A message appears indicating that the test has started. The tester transmits traffic with the MPLS settings you specified. Setting Parameters Tagging Select MPLS. MPLS EtherType Select one of the following: - Unicast - Multicast Num MPLS Labels Indicate whether you want to transmit traffic tagged with one or two MPLS labels. The network will use the label(s) to route the traffic. NOTE: The MPLS 2 settings only appear if you indicate that you want to tag the traffic with two labels. MPLS 1 ID MPLS 2 ID Specify the label ID. MPLS 1 Priority MPLS 2 Priority Specify the label priority. MPLS 1 TTL MPLS 2 TTL Specify the time to live (TTL).

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