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Joe Vendor Company C 123 Main St. Durham, NH 77332 January 15, 2005 Report Rev. 1.0

Enclosed are the results from the Clause 24 PCS Conformance testing performed on:

Device Under Test (DUT): Company C SuperNIC 100

Hardware Version: Rev. 23
Firmware Version: 234
Software Version: N/A

Miscellaneous: Windows 95 platform

The test suite referenced in this report is available at the UNH-IOL website:

ftp://ftp.iol.unh.edu/pub/ethernet/test_suites/CL24_PCS/PCS_version_3.2.pdf

No issues were uncovered during the testing process.

Testing Completed 01/15/2005

Review Completed 01/15/2005

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Result Key

The following table contains possible results and their meanings:

Result	Interpretation
PASS	The Device Under Test (DUT) was observed to exhibit conformant behavior.
PASS with	The DUT was observed to exhibit conformant behavior however an additional explanation of the
Comments	situation is included, such as due to time limitations only a portion of the testing was performed.
FAIL	The DUT was observed to exhibit non-conformant behavior.
Warning	The DUT was observed to exhibit behavior that is not recommended.
Informative	Results are for informative purposes only and are not judged on a pass or fail basis.
Refer to	From the observations, a valid pass or fail could not be determined. An additional explanation of
Comments	the situation is included.
Not Applicable	The DUT does not support the technology required to perform these tests.
Not Available	Due to testing station or time limitations, the tests could not be performed.
Borderline	The observed values of the specified parameters are valid at one extreme, and invalid at the other.
Not Tested	Not tested due to the time constraints of the test period.

GROUP 1: Test Results

Test # and Label	Part(s)	Result(s)
24.1.1 – End of Stream Delimiter Test	a	PASS
	b	PASS

Expected Results and Procedural Comments

Purpose: To verify that RX_ER is asserted when there is no stream termination sequence, ESD (/T/R/), following the SSD.

- a. The DUT should not respond to the NO_ESD test frame. The reception of valid frames preceding and following the NO_ESD test frame separated by the minimum inter-frame gap should not be affected.
- b. The DUT should respond to each of the VALID_ESD test frames. The reception of valid frames preceding and following the VALID_ESD test frames separated by the minimum inter-frame gap should not be affected.
- c. The DUT should not respond to each of the INVALID_ESD test frames. The reception of valid frames preceding and following the INVALID_ESD test frames separated by the minimum inter-frame gap should not be affected

Comments on Test Results

Note: The statistics of the DUT report +1 "errors" for each invalid frame.

Test # and Label	Part(s)	Result(s)
24.1.2 – Invalid Data Symbol Test	a	PASS
	b	PASS
	С	PASS

Expected Results and Procedural Comments

Purpose: To verify that an error (RX_ER) is detected when an invalid data symbol is sent following the transmission of the SSD (J/K).

- a. The DUT should not respond to frames with an invalid symbol.
- b. The reception of valid frames preceding and following the test frames separated by the minimum inter-frame gap should not be affected.
- c. The DUT should report the reception of an FCS error for each frame.

Comments on Test Results

Note: The statistics of the DUT report +1 "errors" for each invalid frame.

Test # and Label		Result(s)
24.1.3 – False Carrier Detect	a	PASS
	b	PASS

Expected Results and Procedural Comments

Purpose: To verify that the device under test (DUT) can detect false carrier events.

- The DUT should not reply to the Test Frame.

 The reception of valid frames preceding and following the test frame separated by the minimum inter-frame gap should not be affected.

Comments on Test Results

None



Annex A: Test Setup

Test Equipment

The following test equipment was used in performing Clause 24 PCS testing:

Testing Equipment	Brand and Version Information	
PC Requirements	Windows 2000	
Software	Symbgen software	
Traffic Generator/Sniffer	Symbgen	
Logic Analyzer	N/A	
TIger/GMII System	N/A	

Test Configuration

The following configuration was used in performing Clause 24 PCS testing:

