Application Note

Document Number: 5001

Product: Link Keywords: Halted Network



Objective

To help diagnose a network failure.

Equipment

Fiber-optic cable (CM056316U...), Fiber-optic connectors (CI055067, CI055068) NOYES light meter (L5231), Fiber optic cutting tool (LA385204) Comms cable (CM353470), PC with ConfigEd

Procedure

- 1. Verify the integrity of the network by updating the monitor list using Configed.
 - Note: If the Module List only shows one module in the network of multiple modules, there is a possible break in the Fiber optic or the light level of a transmitter is too low for operation.

Entre CE	Module List		_ 🗆 ×
0400	5392-400	L5392	ОК
0030	UNW_DRV	Vector	OK
0091	UNW_AIO	Analog	OK
0090	UNW_DIO	Digital	OK
0040	d1_pro	Processor	ОК

- Note: If **Halted by co-pro** or **Network Failure** is displayed on your Link Drive (590L, 620L) or Operator Interface (L5392), verify the light intensity of the Link Modules using the chart on page 2.
- Note: If the Module List displays "PEER HALTED", Link re-addressed a module due to a possible duplicate address or other installation faults.
- 2. If the module list is ok. Then double-click on the individual module to enter the S.A.M. mode



3. Then double-click on the SYSTEM CONTROL block in the configuration to monitor the CRC Errors and Fragments.



If you have questions, please call the Product Support Group at (704) 588-3246.



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- 4. Next, hold down the <Shift> key and double-click on the Get Overruns or other get items.
- 5. Finally, if the Monitor List is counting, the integrity of Link System needs to be verified using a Light Meter. Using the chart on the next page, determine possible bad components in the Link Network.

System (System Control)	_ 🗆 🗙	Monitor List	_ 🗆 ×
Get Address Matches		d1_pro/ System/Get CRC Errors	-> (0)
Get CRC Errors		d1_pro/ System/Get Fragments	-> (0)
Get Fragments		d1 pro/ System/Get Overruns	-> (0)
Get Overruns			
Get State			
Set Debug			

Signal quality

Description

marginal operating range operating range marginal out of range out of range
 db level
 []

 -18
 fit

 -21
 h

 -24
 h

 -27
 h

 -30
 h

 -33
 s

 -35
 s

full power-factory setting half power is reached at each -3db increment signal too weak for receiver signal too weak for receiver

Diagram 1 is a drawing to check simulate a transmitter output intensity.

Diagram 2 is a drawing to network using one module.



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