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3COM EtherLink/NB Card: EtherTalk Incompatibility Problem

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Security: Everyone

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TOPIC -----

My office is having trouble with system bombs while using EtherTalk. Can you help?

Problem Description

Macintosh IIX and Macintosh IICx systems equipped with the 3COM EtherLink/NB card (ASSY 4042- 031 REV A or B) running EtherTalk 1.2 intermittently experience system bombs. Not all Macintoshes display the problem. For instance, given two identical workstations on the same Ethernet segment, only one may experience the problem.

Usually, the system bomb appears in the form of a blank rectangular box in the middle of the screen with no error code or message. However, a couple of users have noticed the System Error 12 appear then disappear. (System Error 12 means that an unimplemented trap was executed.)

We have been working with 3COM for the last two months on this and have determined that our LAN configuration is sound and that all our hardware and firmware is up to specifications. The problem seems to point to the EtherTalk driver, which was written by Apple.

Correlations

The problem seems to be correlated to the amount of Ethernet traffic on our LAN. During an experiment, I placed an Ethernet bridge between an entire floor that was experiencing the problem, effectively reducing traffic and eliminating the system bombs. Also, during extremely high traffic periods, we noticed that the Macintoshes were experiencing the bombs more frequently.

A Macintosh connected to our network via AppleTalk to a Kinetics FastPath does not experience the system bombs. However, as soon as I connect it to the

Ethernet and activate the EtherTalk driver in the Control Panel, the Macintosh begins to experience the system bombs.

DISCUSSION -----

This is a known problem that tends to surface on networks with high traffic levels. It is due to an incompatibility between the revision A and revision B 3COM EtherLink/NB cards and EtherTalk 1.2 or newer. Just as Apple has released revisions to the EtherTalk NB Card, 3COM has released revisions to their EtherLink/NB cards. The most current is revision L, which works with EtherTalk drivers through version 2.0.1. Contact 3COM for details on their EtherLink/NB card upgrade program.

Something else to note is that the latest version of 3+Share is 1.5. 3COM technical support stated that version 1.3.1 shouldn't be causing any problems in your installation, but that there are enhancements in version 1.5 worth looking into.

For more details, search the Technical Info library under "3COM."

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