

## Yeager, Scott

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From: Chang Betty Jo  
To: Hardie John; Luginbill Steve; Ferris Pete; Yeager Scott  
Cc: Euske Bill  
Subject: RE: Mae East  
Date: Thursday, April 28, 1994 1:07PM

Scott

Here are the traffic statistics collected on Mae East. As you can see, the configuration is grossly over utilized. I also assume we are out selling our solution to the other players, perhaps these stats may help turn up the heat on it. Maybe we need to share with specific players, at least privately, the traffic loads we've found on their segments so they can see just how critical the overloading situation really is.

### MAE East News

The dolphin Ethernet analyzer is installed at Boone Blvd. and is currently watching two segments:

- ANS/NSFnet
- UUNET Boone Blvd, Sprintlink

We have also monitored the MCI link. (Check with John Milne for details of where these go.) The ANS/NSFnet link shows 50-70% average utilization during the day, and the UUNET segment shows 60-80% average utilization. Both show a fair number of errors, such as runt packets or CRC errors, which are to be expected under such heavy load. The MCI link was showing 30-50% average utilization. Tomorrow we expect to look at the PSI/Netcom/ESnet link.

Right at the moment, the heaviest pairs appear to be ANS<->UUNET-Boone and ANS<->PSI. The Dolphin turns out not to be the best network analyzer for this purpose, since there's no way to automate statistics gathering. Better would be an RMON/SNMP controllable device which can keep statistics and be periodically polled by a Sun system here.

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From: Yeager Scott  
To: Chang Betty Jo; Euske Bill; Griebing John; Hardie John; Luginbill Steve; Ferris Pete; Feldman Steve  
Subject: RE: Mae East  
Date: Thursday, April 28, 1994 12:46PM

I assume we are out selling our solution to this independent of waiting on UUNET or Rick to bless it.

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From: Chang Betty Jo  
To: Euske Bill; Griebing John; Hardie John; Luginbill Steve; Ferris Pete; Feldman Steve; Yeager Scott  
Subject: Mae East  
Date: Thursday, April 28, 1994 10:46AM  
Priority: High

Here is the additional information I found about SMDS. It's about 4 months old,

Given the traffic loading our testing found on MaeEast, I think we need to move very aggressively in getting these guys off the dime. We'll need a little time to get the FDDI hub and csus ordered and installed, and it's not clear how much longer the current Mae East topology can work at all.....

### Network world 11/93

SMDS T1 SNI requires \$4000 SMDS CSU/DSU as well as a fast router with an RS422 interface. Access SMDS via T3 SNI requires a \$5000 HSSI card for the router and a \$10,000 to \$12000 SMDS CSU/DSU.

Bell Atlantic has a loaner program in which users get equipment free for 3 months in exchange for paying for 3 months of SMDS service. They also have a trade in program that lets users swap out low speed access equipment for higher speed equipment by paying the difference between the old and new equipment.

SMDS charges generally consist of installation fee plus a flat monthly rate for a given port speed. Installation fees are \$375 to \$1000 per T1, and \$2000 to \$3500 per T3. Monthly costs run \$400 to \$709 per T1 link