

2003 Baseline

FY 2003 Proposal to the NOAA HPCC Program

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Proposal Theme: **NGI**

Funding Summary: FY 2003 \$ 9,500

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2003 Baseline

Proposal for FY 2002 HPCC Funding

Prepared by: Jerry.Janssen

Executive Summary:

The NOAA Network Advisory Technical Team (NATT) was organized under HPCC proposal INF/NE/11 - *Improving Inter-Campus Connectivity* to improve NOAA network connectivity by facilitating communications between the network staffs of different NOAA organizations. It is comprised of technical and managerial representatives from several NOAA organizations including NESDIS, NMFS, NOS, NWS, OAR, and OFA. The first NATT meeting was held in March 2001 and there have been several subsequent meetings since. A primary focus of the NATT has been to develop a baseline physical drawing, logical drawing and database of the existing NOAA national network (HPCC proposal [NGI/CE/01](#) - NOAA National Network Baseline Proposal). This work is critical to improving the short-term reliability and cost efficiency of NOAA inter-campus connectivity.

The goal of this proposal is to continue the work started by the NATT on the physical drawing, the logical drawing, and the database of address information.

Problem Statement:

The organizations within NOAA have a wide range of Internet and Intranet requirements including various levels of security, reliability, and bandwidth. As these requirements continue to evolve, each organization builds network connections to meet its own individual needs. This evolution has led to a complex system of interconnections that is constantly changing. Up to now, there has been no centralized effort to document this system of interconnections. This is largely because it requires the cooperation of several organizations that rarely work together, and it also represents an effort to create a static image of a moving target.

Because the NOAA network is constantly evolving and changing, the accuracy and therefore the value of the information obtained in this effort will diminish with time. A system for maintaining up to date information is needed.

Proposed Solution:

Because as mentioned above, the NOAA national network is constantly evolving, This project continues the work that was started last year and insures that the information gathered remains up to date for one more year. The NATT team will work to develop an automated system to keep the information obtained up to date in the future.

Analysis:

Clearly a complete baseline of the NOAA national network is a critical step to improving the short-term reliability and cost efficiency of NOAA inter-campus connectivity. This package of

information including logical and physical drawings as well as an address database will also be instrumental in building an efficient, cohesive, and reliable network infrastructure for NOAA in the future. This project will also encourage NOAA network staff from different organizations and locations to work together on a joint project leading to better relationships and communications.

Performance Measures:

Milestones/Deliverables

Month 12	Updated logical network drawing Updated physical network drawing Updated address database
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