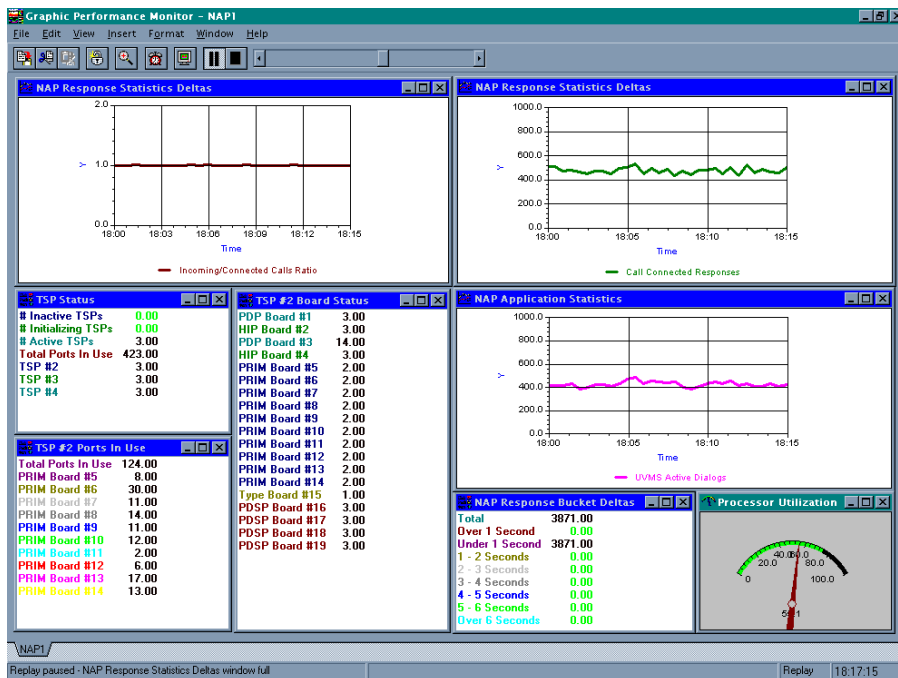


Graphic Performance Monitor TM



GPM/NAP

Network Application Platform performance management made easy!

Managing the performance of applications built around the Network Application Platform (NAP/CAP) has just got easier with the release of the GPM NAP Analysis Module GPM/NAP. This module allows you to measure and monitor all aspects of NAP performance. GPM/NAP can quickly indicate current activity levels and response time statistics as well as the current state of all NIU/TSP ports and Resource Groups. GPM/NAP can be used to ensure that problems are detected long before they begin to seriously affect NAP performance and incoming calls are lost.

Used in conjunction with the other GPM modules, the system hardware configuration can easily be adjusted to provide optimum performance. The System Performance Module can be used to locate diskpicks that are overloaded or running low on available space. The Database Analysis Module can be used to determine how best to allocate memory to the database to keep I/O activities to a minimum. And, the Workload

Analysis Module can be used to determine which tasks are using the most CPU and I/O resources and can quickly identify programs that have begun looping or are stalled.

Recognize warning and alarm conditions instantly

GPM makes extensive use of colours and other visual cues to signal when warning or alarm conditions have occurred. The installation can tune warning and alarm thresholds to indicate system performance problems as soon as they occur. When a problem occurs, pressing a single function key can call up detailed displays of all aspects of system usage. GPM's "instant replay" mechanism allows recent performance information to be reviewed with a single keystroke.

Track historical system usage trends

The GPM data aggregation facility allows system usage information to be tracked on a long-term basis. GPM history files can be displayed and replayed just like normal data files. This information is invaluable in forecasting future system resource requirements and in identifying potential bottlenecks.

The GPM/NAP module provides the following performance information:

Voice File Statistics & Voice File Rates per Minute

Totals and rates for the following items:

In Use VIODB Records	Buffer Copies
In Use Voice Messages	Segment Cache Hits
Total Voice Segments	Physical I/O Reads
In Use Voice Segments	Physical I/O Writes
Allocated Buffers	In Use IOCBs
In Use Buffers	Active Voice
Active Voice Processes	Stacks
Voice Bytes per Buffer	Active Library Procs
Total Bytes per Buffer	Active Background Procs
Messages Sent	Segment Cache Requests
Messages Received	Message Cache Factor
Messages Deleted	Message Cache Requests
	Message Cache Misses

Response Statistics & Deltas

Transaction counts and response times including:

- o Incoming Call Reports
- o Call Connected Responses
- o Transferred Dialogs
- o Connected Transfers
- o AIM Exceeds 1-1/2 Seconds
- o Transactions/Call
- o Incoming / Connected Calls Ratio

Response Buckets

Response time distribution information showing running counts and percentages of transactions with response time under a second, between one and two seconds, two and three seconds, etc.

**MHS Statistics & MHS Node Statistics
User Agent Statistics**

Application Statistics

Performance information for each active application including:

- o Active Dialogs
- o Avg Resp Time
- o Queue Depth
- o Call Hold Time
- o Incoming & Outgoing Calls/sec
- o Incoming & Outgoing Connected Calls/sec
- o Calls Connected %
- o Transferred Dialogs/sec
- o Transferred Connected Dialogs/sec
- o Transferred Calls % Connected
- o Incoming & Outgoing Calls
- o Incoming & Outgoing Calls Delta
- o Transferred Dialogs Delta
- o Transferred Connected Dialogs Delta

Resource Group and NIU Statistics

Port state information for each Resource Group and NIU showing the number and percentage of ports in the following states:

Unready	Idle
Tear Down	Disconnected
Busy	Status

Port Counts

TSP Statistics

Total Ports in use

For each TSP:

Status

Board Status (including PRIM & VPRIM)

Ports in Use

SS7 Linkset Status

CAS Signalling Status

***Error Counter Totals & Deltas**

***Reason Code Totals & Deltas**

Software ID Linkset Status

***SMDI Link Status**

* VNMS 17.8 and above