

ASG-TMON® FOR TCP/IP

Cross-Platform Performance Monitoring and Management of TCP/IP Networks

OVERVIEW

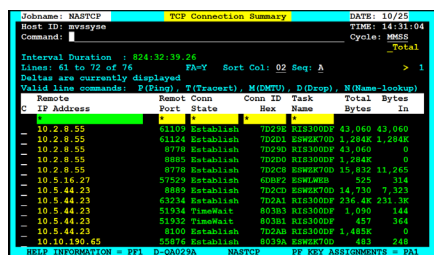
Because today's business applications rely heavily on TCP/IP networks, it has become critical to monitor and manage the availability of network devices and overall network performance. You need a seamlessly integrated solution for enterprise wide TCP/IP availability, configuration, performance, monitoring, and reporting. ASG-TMON for TCP/IP provides real-time and historical performance information on the TCP/IP host—the information you need to manage performance tuning, configuration, and resolve problems quickly.

A COMPLETE ENTERPRISE-WIDE, CROSS-PLATFORM TCP/IP MONITOR

ASG-TMON for TCP/IP is a single-point solution to monitor and manage critical TCP/IP networks. Using ASG-TMON for TCP/IP, you can:

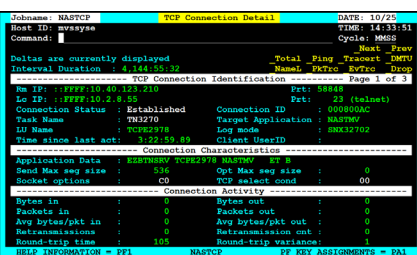
- Monitor TCP/IP hosts and routers in real time
- Analyze resource utilization and contention
- Take action before thresholds are exceeded
- Identify and correct performance anomalies
- Perform historical reporting for trend analysis and service-level agreement verification

ASG-TMON for TCP/IP identifies network bottlenecks, implementation problems, and the network's impact on business applications. It is the only z/OS-centric TCP/IP product that monitors and manages non-z/OS stacks and devices, and thus, the only complete enterprise-wide TCP/IP monitor.



Jobname: NASTCP DATE: 10/25
Host IP: 192.168.1.100
Command:
Interval Duration : 824.32.39.24
Lines: 61 to 72 of 74
Deltas are currently displayed
Valid line commands: P(Ping), T(Traffic), M(Mem), D(Drop), N(Name-lookup)
Remote Port Conn Conn ID Task Total Bytes
C IP Address Port State Hex Name Bytes In

| Remote IP Address | Port | State | Conn ID | Task | Total Bytes |
|-------------------|-------|-----------|---------|----------|-------------|
| 10.2.0.55 | 81179 | Establish | 70296 | RIB300DF | 43,040 |
| 10.2.0.55 | 81174 | Establish | 70201 | RIB300DF | 1,2448 |
| 10.2.0.55 | 8778 | Establish | 70290 | RIB300DF | 43,040 |
| 10.2.0.55 | 8885 | Establish | 70290 | RIB300DF | 1,2448 |
| 10.2.0.55 | 8778 | Establish | 70209 | RIB300DF | 15,632 |
| 10.5.16.27 | 57529 | Establish | 60882 | BWLMB | 525 |
| 10.5.44.23 | 8869 | Establish | 70200 | BWLMB | 14,736 |
| 10.5.44.23 | 63234 | Establish | 70201 | RIB300DF | 236,48 |
| 10.5.44.23 | 51934 | TimeWait | 80383 | RIB300DF | 1,090 |
| 10.5.44.23 | 51932 | TimeWait | 80381 | RIB300DF | 457 |
| 10.5.44.23 | 8100 | Establish | 70208 | RIB300DF | 1,4898 |
| 10.10.190.45 | 52876 | Establish | 80386 | RIB300DF | 482 |



Jobname: NASTCP DATE: 10/25
Host IP: 192.168.1.100
Command:
Interval Duration : 4.144.55.32
Deltas are currently displayed
TCP Connection Identification
No IP : 192.168.1.100
Lo IP : 192.168.1.100
Task Name : TCP270
EJ Name : TCP270
Time since last act : 1.22.55.45
Client HostID : 80312702
Connection ID : 80312702
Application Data : RIB300DF TCP270 NASTCP
Send Max seg size : 536
Socket options : CO
Connection Activity
Bytes in : 0
Packets in : 0
Avg bytes/pkt in : 0
Retransmissions : 0
Round-trip time : 105

ASG-TMON for TCP/IP provides everything needed to manage TCP/IP performance.

TMON TCP/IP provides total monitoring and management of your connections

IMPROVE PERFORMANCE AND AVAILABILITY

ASG-NaviPlex® combines availability and performance data from all ASG-TMON monitors enterprise-wide into one Windows® application. ASG-TMON for TCP/IP, combined with ASG-NaviPlex, provides alerts via WTO, e-mail, text messaging, and SNMP, along with proactive, automated actions that can prevent application degradation and outages.

BENEFITS

- Accelerates problem determination by displaying the number and severity of exceptions on a single screen for all TCP/IP stacks (z/OS and non-z/OS), with builtin, drill-down capabilities to see details for any stack
- Provides an easy way to define and view conditional exceptions to quickly pinpoint problems and root causes
- Simplifies application identification, network performance, and integrity issues by providing contextsensitive individual packet or socket trace information
- ASG-NaviPlex combines availability and performance data from all ASG-TMON monitors enterprise-wide into one Windows® application
- Comprehensive Performance Analysis and Reporting - includes both online and offline features for performance analysis and reporting. These features help you meet service objectives through real-time access to data, the visualization and correlation of metrics, and historical reporting.

ASG-TMON for TCP/IP rapidly pinpoints problems and root causes throughout the entire network by providing conditional monitoring/ alarming across SNMP and non-SNMP entities.

ASG-TMON FOR TCP/IP FEATURES INCLUDE:

z/OS Insight provides a true picture of the z/OS impact on network performance by providing visibility into subsystems, applications, and resources that impact the z/OS TCP/IP stack and overall network performance (including FTP, Telnet, CSM and ICMP).

Continuous Availability Monitoring manages network devices to ensure critical components are available and responding within customer-determined thresholds.

Application Impact Monitoring assesses the business impact of network performance by defining and mapping exception conditions with business application services levels.

Exception Processor provides a single-screen view of exception conditions to quickly determine overall network performance, as well as application performance from a network perspective.

Entity Monitors provides in-depth monitoring of supported SNMP-enabled entities, including TCP/IP stacks, and CISCO routers.

View Expander enhances the scope of monitoring by making performance data visible from any SNMP-enabled entity.

Communications Storage Manager (CSM) Monitor provides detailed information of the amount of CSM allocated at the system level as well as at the address space level.

Enterprise Extender Support provides information on SNA traffic over TCP/IP including physical interface activity, virtual activity (loopback data between VTAMP and IP) and transport (UDP port activity). Domain Name Server Monitor provides capability to diagnose DNS configuration and performance problems (including resolving domain name to IP addresses and display of port number).

Dataset Access Reporter maps User ID 's and/or IP addresses by dataset to identify potential FTP performance enhancement opportunities.

User ID Reporter displays all activity for any user over any time period to identify non-priority activities that are impacting network performance.

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Jobname: NASTCP      Packet Trace Dataset Display (TTCP650D)      DATE: 10/25
Host ID: mvssysse
Command:
Source: PS237A.TCPIP.EDUC.D190529.T0702.P06
Format: Y Short _ Summary _ Full _ Hex      From: 05/29 07:02:17      _Reset
To: 05/29 07:05:16      _GMT
Curr packet range: 1 TO 1000 OF 1000
Curr roster size = 1040      Packets in roster = 1000
Pro Timestamp      Home Address      Direction
TCP 07:02:19.781204 10.2.8.55      <--
Type=MPC IPADDRNE, Linkname=DIOLINK, TotLen=50(Full), SeqNo=0
IP: Src=10.2.41.214, Dst=10.2.8.55, PktLen=50, Prot=6, Id=22192
HdrLen=20, Vers=4, ToS=0, TTL=127, Offset=0(0), Cksum=5F05
Flags=40 (DontFrag)
TCP: Seq=2675883952, 2675883962(10) Ack=1784097844
HdrLen=20, Win=257(1784098101), Cksum=B2B7, Flags=18 (Ack, Psh)
Data 45000032 56B04000 7F065F05 0A0229D6|E 2V08 .....)V|.. .. ".....O|
+0010 0A020837 E35A0017 9F7EBF80 6A572C34|...7cZ ...~?0jW,4|.....T! ..B=...|...|
+0020 50180101 B2B70000 00000000 927D4A5F|P...27 ..)J_|&..... k'c-|
+0030 FFEF ..o |... |... |
TCP 07:02:19.783294 10.2.8.55      -->
HELP INFORMATION = PF1 D-QA029A      NASTCP      PF KEY ASSIGNMENTS = PA1
  
```

We provide a packet trace to show the detail of all communication

TECHNICAL SPECIFICATION

SUPPORTED ENVIRONMENTS/ PLATFORMS/ OPERATING SYSTEMS

- Supports z/OS 1.9 or later
- Communications Server for z/OS 1.9 or later
- SNMP agent 1.0 and 2.0
- Supports all hardware devices that support 3270 datastreams
- Supports IPV4 and IPV6

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