

Real-time Network Monitoring, Effective Bandwidth Management Maximize Network Resource Utilization For Government and

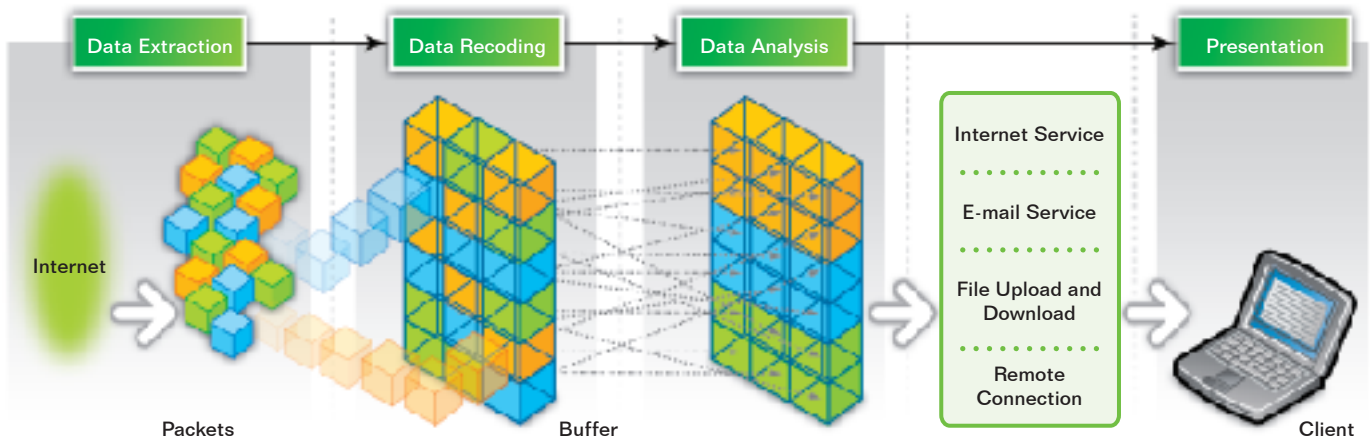
With an ever-increasing demand of bandwidth: Why is connection speed still so slow even we have already install so many ADSL lines? Does the bandwidth capacity fulfil our needs? Do we have to use T1 line?

These are the questions PacketShow is designed to answer for. PacketShow, the network traffic analysis and management system, provides essential network information for government and educational institutions:

1. Manager could adjust the bandwidth quota based on the employee's real-life Internet usage information, which in effective increase usage rate, and decrease network resource squander.
2. Administrator is able to attend problems with swift speed, such as abnormal bandwidth usage or ineffective bandwidth quota allocation can be monitor, analyse, and track from the traffic information.
3. Educational institution is able to generate the TOP30 report anytime for TANet II

PacketShow has incorporated tools for traffic analysis cycle management, including PacketShow Observer, PacketShow Recorder, PacketShow Analyzer, and PacketShow Supervisor. Through this cycle management concept, we can ensure the most effective network resource utilization for government and educational institution and help you to claim back the missing bandwidth.

Database Architecture Conceptual Flow



PacketShow Highlight

Real-time Transparent Traffic Monitoring

Real-time and complete network monitoring and activity recording on all connections enables network administrator to actively detect, analyse, track, and resolve abnormal bandwidth usage.

Leakage-Free Packet Extraction Technology

PacketShow is capable of 100% packet extraction rate, which provides government and educational institution an objective and complete traffic statistic report.

Connection Statistic Analysis, Tracking, and Search

1. By utilizing database technique, packet information is record and index under a pre-configured criteria, such as user, department, network service protocol, or other additional user-defined fields etc.
2. PacketShow users (mostly network administrator or official in government and educational institution) do not need to wait for lengthy database reconstruction when retrieving or searching information, therefore, greatly improve searching performance and speed.

Transparent Traffic Statistic Report

Display traffic statistic and ranking chart (year, month, and day) by department, network service, IP, HTTP, Telnet, or computer name, which presents administrator a clear and accurate bandwidth usage information for better management control.

Strict User and Organizational Structure Mapping

Allow direct mapping of user account and IP address, which enables employee name to be display on the ranking chart. This permits administrator to quickly and clearly in control of user's bandwidth usage.

Real-Time Failure Alert / Response Mechanism

Allow placing different bandwidth limitation on different department or user. Whenever the limitation is overtaken, PacketShow will response to the issue immediately. This in effect has created a fast emergency response mechanism.

Web-based Mangement At Your Figure Tips

User-friendly and intuitive management interface enables even department manager to easily in control of network usage status by department members.

PacketShow Specification

Traffic Statistic Graph	
Service Traffic Graph	Display bandwidth usage by individual service. Column includes, ranking, service name, port, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
Department Traffic Graph	Display bandwidth usage by individual department. Column includes, ranking, department name, upper level department data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
IP Traffic Graph	Display bandwidth usage by individual IP address. Column includes, ranking, source IP, source machine name, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
HTTP Traffic Graph	Display bandwidth usage by HTTP service. Column includes, ranking, source IP, source machine name, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
Telnet Traffic Graph	Display bandwidth usage by Telnet service. Column includes, ranking, source IP, source machine name, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
Network Neighbourhood (NetBios)Traffic Graph	Display bandwidth usage by Network Neighbourhood service. Column includes, ranking, source IP, source machine name, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
Outbound Connection Traffic Graph	Display outbound bandwidth usage to external websites. Column includes, ranking, source IP, source machine name, data sent (KBytes), data received (KBytes), outbound connection request, and inbound connection request.
User-Defined Traffic Graph	Display a network service defined by user
Statistical Chart	
Chart Type	Display different statistical chart by time period, such as yearly chart, monthly chart, and daily chart.
By Network Service	Display the bandwidth usage ratio by different network services over a time period.
By Department	Display the bandwidth usage ratio by different departments over a time period.
Network Service Ranking	Ranking chart for different network services, such as HTTP ranking chart, FTP ranking chart, Telnet ranking chart... etc.
User Ranking	Ranking chart for individual user or department.
Search	
By User	Search and display network usage information of a given user.
By Network Service	Search and display usage information of a given network protocol.
Traffic Management	Modify or delete entry from the traffic information database. It also provides configuration of IP address that is excluded from recording.
Current Traffic Statistics	Real-time traffic statistics
System Administration	
User Mangement	Create, batch import, delete, search, and modify user's basic information.
Department Management	Create, delete, and modify department information
Security Mangement	Configure usage privilege for manager and MIS.
System Process Mangemen	Provide user interface for managing background system process
Message Alert	Configure e-mail alert to a given administrator account when a given bandwidth usage limitation is reached.
Internal Network Configuration	Configure subnet of internal network
Data Maintenance	Configure data entry expiry date, and data export, data archive, and configuration recovery.
Other Configuration	
Log Format Configuration	Configure log file format to read, file location, proxy server, and port number.
Packet Extraction Method	Select Sniffer or Netflow method, and configure its IP address and port number.
Webpage Filter	WebFilter is one of optional plug-in module of PacketShow, which is able to filter website, and restrict individual's web browsing access right.

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