

STREAMGROOMER INTEGRATED LINE

BENEFITS

ADAPT AUTOMATICALLY TO USER BEHAVIOR

Streamcore's exclusive technology adapts dynamically to variations in application behavior to ensure unequalled traffic control. The StreamGroomer Integrated product line thereby guarantees performance adapted to the requirements of all users (protection of roaming users, faster browsing on partner sites).

REDUCE COSTS AND SIMPLIFY THE OPERATIONAL PROCESSES

Integrated control of monitoring and operating tasks makes the Help desk more reactive and more efficient and guarantees that network investments are optimized, because they are adapted to true application requirements. Automation of active management functions guarantees immediate results and productivity gains: automatic acceleration of critical interactive traffic, as soon as the equipment is activated.

CONTROL PERFORMANCE

The monitoring & reporting functions, accessible via a Web browser, deliver consolidated, complete and detailed information. Non-professional flows can be controlled. With customized access authorizations, responsibilities can be shared while protecting the integrity of the global IS management policy.

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STREAMCORE
SYSTEM

Sgi 420, 800



A COMPLETE SOLUTION FOR CONTROLLING AND AUTOMATING THE PERFORMANCE OF APPLICATIONS ON WANS

With Streamcore solutions, companies can display, monitor and automate the performance of applications transiting on wide area networks and control constantly changing, complex multiservice environments.

The StreamGroomer Integrated product line is ideal for small-scale deployments (management of a specific access link or an Internet access). These dedicated "all-in-one" units include the monitoring/reporting, active traffic management (QoS), and administration features in a single piece of hardware.

PRODUCT FEATURES

The StreamOptimizer software in the product line offers the following processing features for application traffic:

► MONITORING

STREAMVIEW & STREAMREPORT:

Detailed audit of infrastructure performance, application behavior and the service provided to users: Hierarchical visibility (at the geographic, application, and user levels); Real-time or long-term monitoring; Control of telecom services; Network scaling support; Detection of abnormal behavior; Troubleshooting tools (traffic capture, active connections, etc.).

► ACTIVE MANAGEMENT

SHAPING MODE:

Automatic acceleration of business applications with a single StreamGroomer placed on a central site or upstream of an Internet access. Optimization of traffic going to the WAN; Processing of established and saturating traffic from the WAN (Internet, e-mail, etc.).

► MANAGEMENT

Integrated control system for a simple and efficient approach to application performance and management:

Use of monitoring/reporting features; Configuration and management of the active management policy; Definition of customized access authorizations (read-only, write, geographic or functional limitation), etc.

HARDWARE SPECIFICATIONS AND PERFORMANCE

MONITORING

RELEVANT PERFORMANCE INDICATORS

Real-time and historical monitoring

- ▶ Of the network:
Average and max. throughputs on a link, bandwidth breakdown between the sites / between the applications, application competition, loss and retransmission rates. Stress-based analysis of peak periods.
- ▶ Of the applications:
Application response time with network and server time breakdown, average and maximum throughput rates for individual applications, number of current active connections, number of TCP calls/minute, number of packets/second.
- ▶ Of the users:
Detailed monitoring and throughput rates for active connections, TOP N transmitters and receivers, traffic capture.

EXHAUSTIVE TRAFFIC CLASSIFICATION

- ▶ Automatic detection of hundreds of application protocols on TCP, UDP, IP and non-IP (Web traffic, e-mail, FTP, SNA, etc.).
- ▶ Hierarchical traffic classification: By ascending granularity, with combinations of inclusion and exclusion filters.
- ▶ Criterion-based traffic classification, by connection, up to Level 7 in the OSI model: IP addresses, source and destination ports, type of application protocol, TOS/DiffServ field value, IP precedence bits, specific application criteria (URL, Hostname, content-type, user-agent, FTP dynamic ports, etc.), VLAN, @MAC.

MANAGEMENT

EASE OF CONFIGURATION

- ▶ Monitoring: Configuration fully centralized from the SGM, access from a Web browser.
- ▶ Only one QoS parameter per application rule: relative bandwidth priority allocation.
- ▶ Throughput allocation reserved for multimedia traffic (VoIP, etc.).
- ▶ Configuration independent of the traffic mix (number of applications and users present).
- ▶ Shaping mode configured in just a few clicks.

INTEGRATION INTO THE INFRASTRUCTURE

- ▶ Adaptation to network topologies: Branched or serial connection, progressive deployment.
- ▶ Availability: Automatic switching to Bypass mode in the event of a problem, easy deployment and troubleshooting via remote activation/deactivation or by switching to optimization/monitoring mode.
- ▶ Cooperation with operator QoS: Read/Write of the DiffServ field (TOS/DSCP).
- ▶ SNMP Agent, MIB II, MIB Bridge and MIB Streamcore.
- ▶ Alarm generation via an SNMP trap.

ACTIVE MANAGEMENT

COMPLETE QOS PROCESSING

- ▶ TCP and UDP traffic (including VoIP, Video on IP).
- ▶ Optional denial of access for certain applications (to extend the action of the Firewall on private networks).
- ▶ Weighted Fair Queuing per connection (protecting each user) or per class:
Fair share: Fair sharing of bandwidth between active application connections for a given application.
Fast-Start: Automatic priority for interactive and transactional traffic. Protection through reserved throughput rates for real-time flows.
Work conserving: Continuous use of maximum link capacity.

Model	SGi 420	SGi 800
Performance		
Max. throughput in QoS	45 Mbit/s	100 Mbit/s
Speeds available	2, 4, 10 and 45 Mbit/s	45 and 100 Mbit/s
Max. number of TCP flows	20,000	50,000
Max. number of bidirectional rules	500	1500
Size		
Height	4.3 cm (1U)	4.3 cm (1U)
Width	44.5 cm (19" rack)	44.5 cm (19" rack)
Depth	57.4 cm	57.4 cm
Weight	6.05 kg	6.15 kg
Power supply		
Power and type	Internal, 100/240 VAC 47/63 Hz 180 W max	Internal, 100/240 VAC 47/63 Hz 320 W max
Environment		
Temperature	0 to 35°C	0 to 35°C
Relative humidity	5% to 95% at 20°C	5% to 95% at 20°C
MTBF	> 45,000 hours	> 45,000 hours
Interfaces		
Network interfaces (to LAN/WAN)	2x10/100 Base-T (integrated bypass)	2x10/100/1000 Base-T (integrated bypass)
"Out of band" administration	10/100/1000 Base-T	10/100/1000 Base-T
Asynchronous port	RS-232C - DB9	RS-232C - DB9
Certifications		
Miscellaneous	CE, FCC EN60950, EN55022, EN55024	CE, FCC EN60950, EN55022, EN55024