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Streamcore
Network Performance Monitoring
and Optimization

Automic™

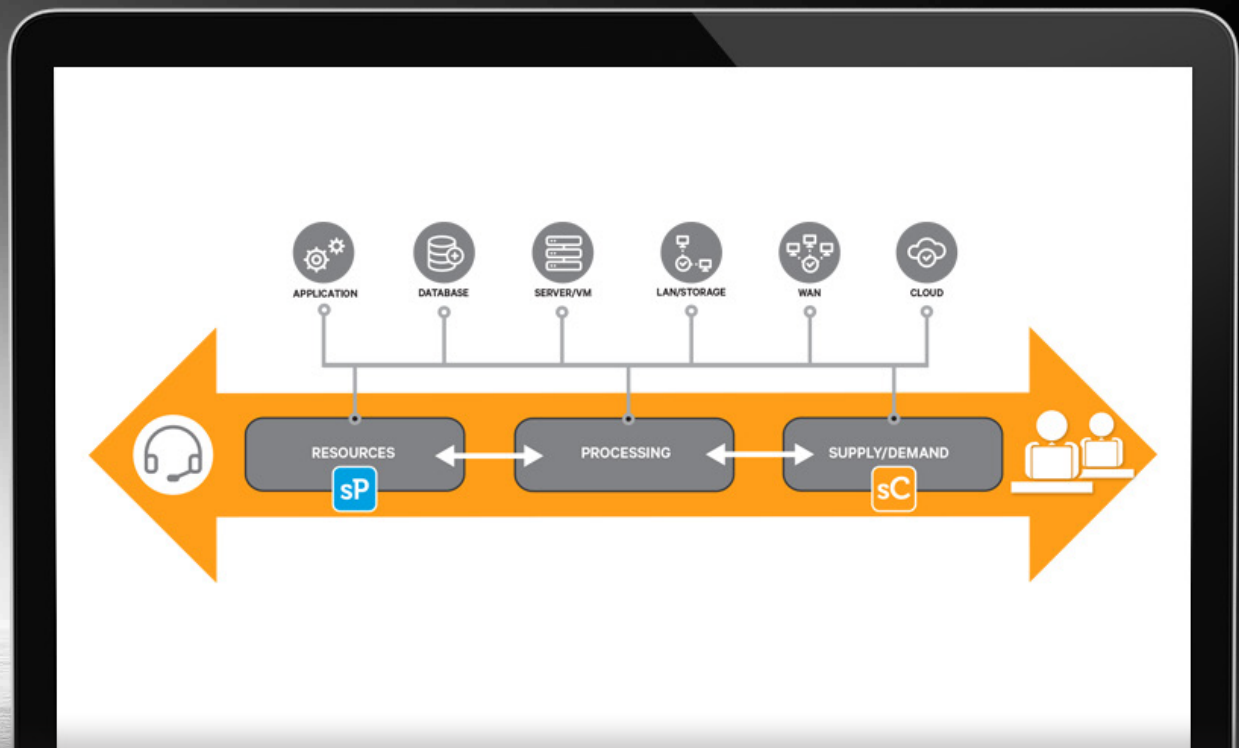# Network Performance Monitoring & Optimization with Streamcore

- **Visualize application performance over the network**

- **Monitor the health of enterprise network communications**

- **Troubleshoot and resolve network issues**

- **Assure performance of business-critical applications**

- **Optimize network bandwidth utilization**

Higher Performance – Less Effort

Network managers and engineers continue to be pressured for higher network throughput and performance. Business demands are accelerating network traffic volume faster than bandwidth is increasing. Efficient bandwidth utilization is essential to keep network costs from escalating out of control.

Networks are blamed for a long list of performance difficulties, including disrupting video conferences, poor voice quality and slow application response times. Cloud services, software defined networks, mobility, and increasing use of the Internet only add to the complexity challenge. Existing network performance tools lack the integrated monitoring, diagnostic and control capabilities needed to address these issues.

Automic Streamcore ensures networks perform up to requirements — every day — by enhancing visibility and actively optimizing network performance. Organizations have slashed problem resolution times by a third. Companies have increased bandwidth efficiency up to 90%, deferring incremental WAN bandwidth expenses up to two years.

Automic Application Delivery Management

Streamcore is an integral component of Automic's Application Delivery Management (ADM) solution.
IT increasingly struggles to manage performance across the complete application delivery value chain – from the infrastructure layer to the end-user. They've often employed multiple tools that don't aggregate their knowledge, and Cloud services that further reduce visibility of their applications and systems. To address this critical need, Automic ADM integrates three solution components:

sC   Streamcore manages and controls delivery of application services to the end-user

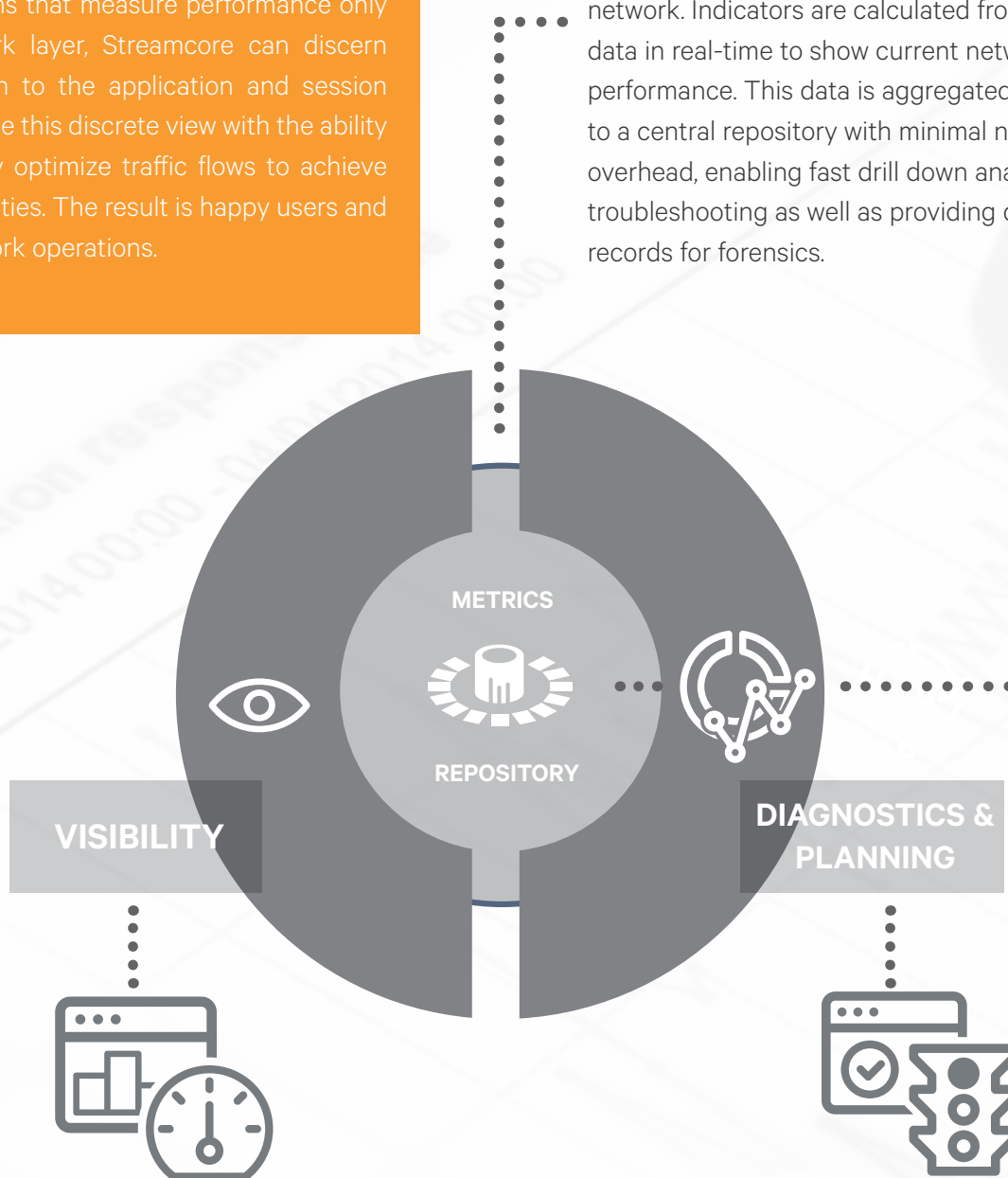**sP**   Sysload manages delivery of IT infrastructure services that support business applications

Automic ADM ensures that end-to-end service levels are met, with users benefiting from consistent response times, reduced turnaround times, increased availability and faster resolution of problems.

Automic Streamcore Overview

Streamcore monitors and controls the performance of application traffic flows across wide area networks and the public Internet. Unlike solutions that measure performance only at the network layer, Streamcore can discern behavior down to the application and session layers. Combine this discrete view with the ability to dynamically optimize traffic flows to achieve business priorities. The result is happy users and efficient network operations.

Network Metrics

Streamcore analyzes network traffic at wire speed, collecting comprehensive measurements and packet data at distributed points in your network. Indicators are calculated from this data in real-time to show current network performance. This data is aggregated and sent to a central repository with minimal network overhead, enabling fast drill down analysis and troubleshooting as well as providing detailed records for forensics.

METRICS

REPOSITORY

VISIBILITY

DIAGNOSTICS & PLANNING

IT Operations

Have at your fingertips the data needed to manage end-to-end network performance. Streamcore's Performance Map and Performance SLM Dashboard immediately alert you to network performance issues. The applications and sites affected are highlighted, along with level of business impact. Network or server issues are quickly identified by tracking WAN RTT, WAN transit and overall transaction times which are viewable as diagnostic charts. Issues can be assigned to the correct group for root cause analysis and resolution, saving staff time and reducing MTTR.

Network Engineering

Anticipate demands on the network, and enable it to organically adapt to fluctuating traffic flows. Configure Streamcore's fine-grained traffic controls to automatically avoid the impact of congestion on business-critical applications. Provision Streamcore's WAN acceleration to speed up network response time and increase throughput of existing bandwidth resources.

End Users

Work where and when a you need to. Count on consistent network performance when using VoIP or video conferencing or accessing applications and files.

WAN Optimisation
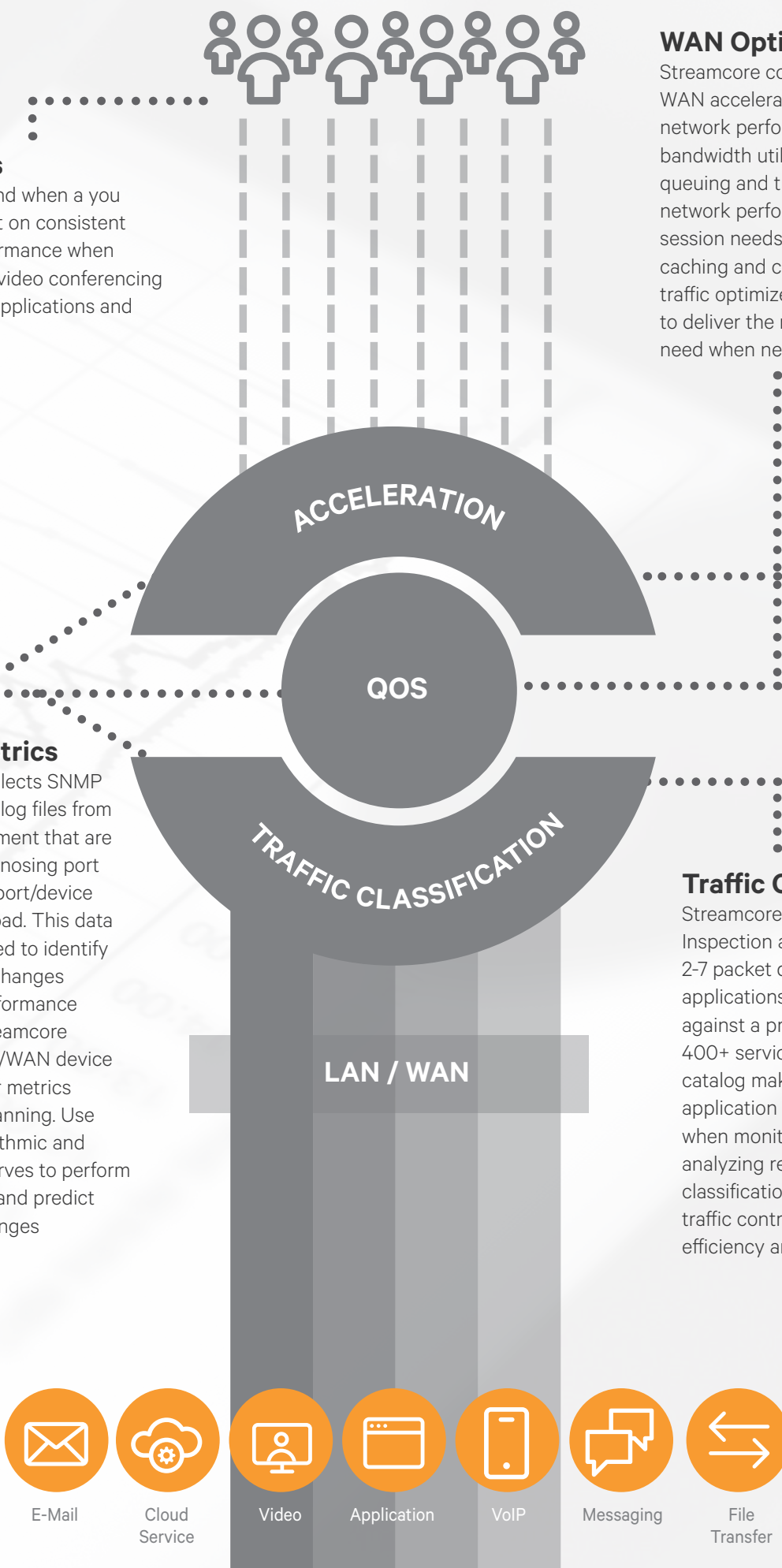
Streamcore combines QoS and WAN acceleration to assure network performance and maximize bandwidth utilization. Fine-grained queuing and traffic shaping match network performance to application session needs. Protocol acceleration, caching and compression of network traffic optimize bandwidth utilization to deliver the response times users need when networks are congested.

ACCELERATION

QOS

TRAFFIC CLASSIFICATION

Device Metrics

Streamcore collects SNMP MIB2 data and log files from network equipment that are vital when diagnosing port problems and port/device capacity overload. This data can also be used to identify configuration changes that cause performance difficulties. Streamcore combines LAN/WAN device data with other metrics for capacity planning. Use baseline, logarithmic and exponential curves to perform trend analysis and predict impacts of changes
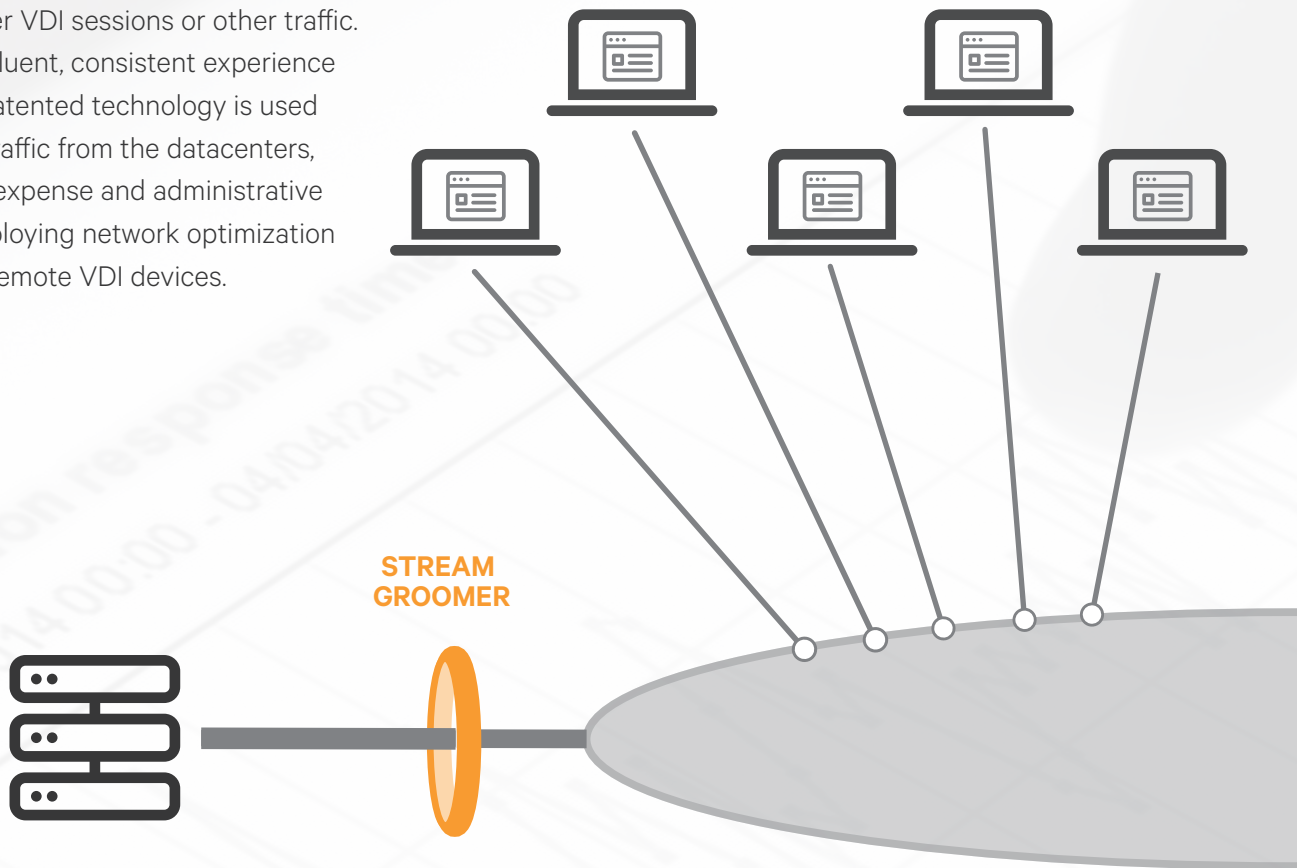
Traffic Classification

Streamcore's Deep Packet Inspection analyzes Layer 2-7 packet data to identify applications and user sessions against a predefined catalog of 400+ services. This extensible catalog makes it easy to match application types to packet data when monitoring activity and analyzing reports. These same classifications are also used for traffic control, improving resource efficiency and reducing errors.

LAN / WAN

E-Mail Cloud Service Video Application VoIP Messaging File Transfer

Virtual Desktop Applications

Streamcore uses advanced behavior recognition of VDI sessions to allocate adequate bandwidth regardless of the behavior of other VDI sessions or other traffic. This ensures a fluent, consistent experience for each user. Patented technology is used to control VDI traffic from the datacenters, eliminating the expense and administrative overhead of deploying network optimization technology on remote VDI devices.

STREAM GROOMER

VOLVO

Volvo built a large-scale network to handle peak activity across all of its 320 truck dealer sites. As the network became increasingly subscribed, they encountered excessive latency that handicapped truck diagnostics and spare parts ordering for dealers. With Streamcore monitoring and diagnosing network performance, Volvo was able to:

- **Discover service provider issues that generated the network latency problem**

- **Instantly identify the cause of other performance problems**

- **Meet the performance SLA subscribed by each dealer**

VoiP and Video Conferencing

Streamcore's patented multimedia traffic classification enables precise recognition of unified communication flows. Traffic controls establish a separate queue for IP voice and video traffic, ensuring consistent, high-quality voice calls and video conferences. This is accomplished without affecting other business critical flows
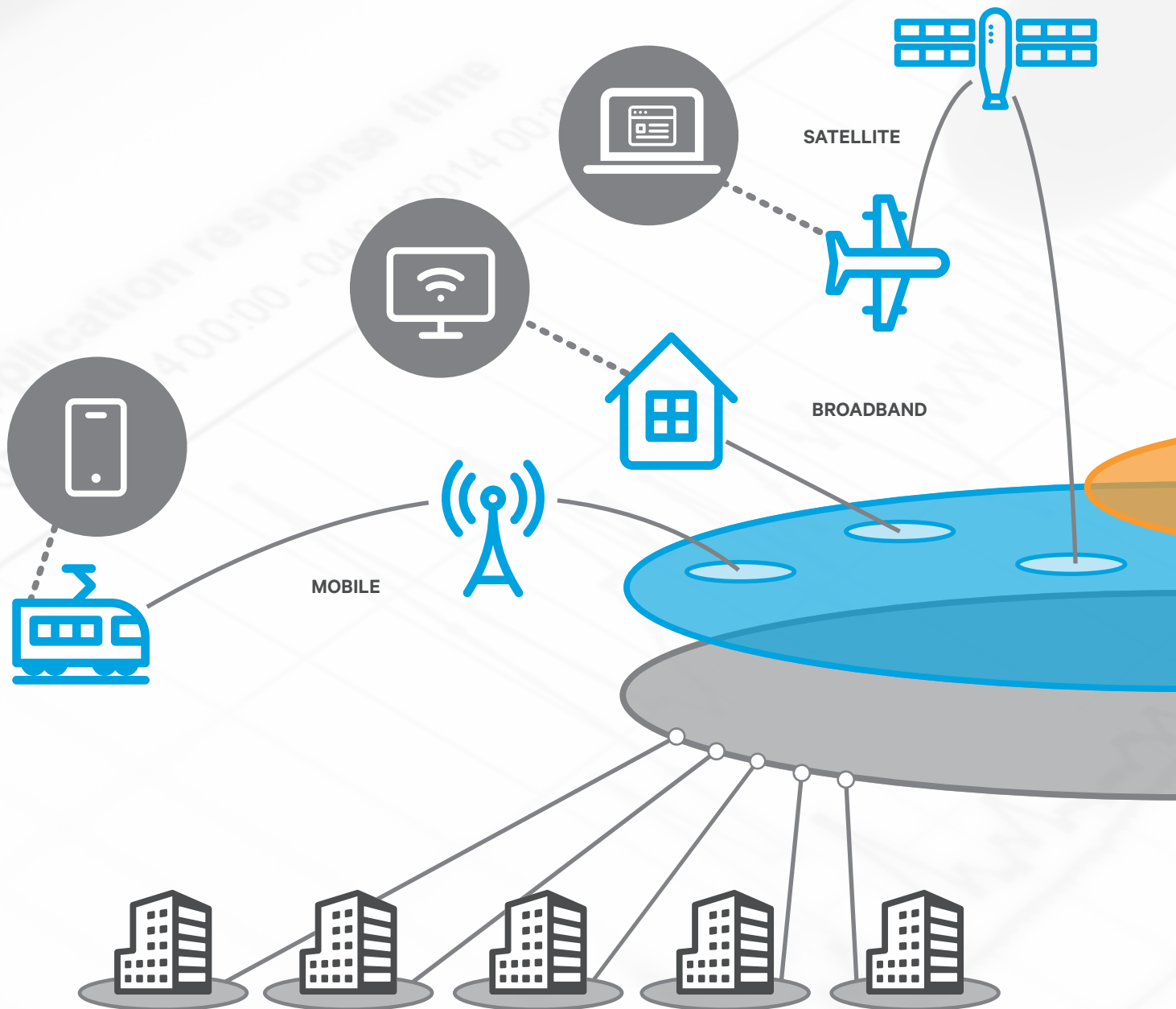
STREAM GROOMER

VPN/SDN

GROUPE Casino

Casino is a leading international food retailer operating more than 14,000 outlets in eight countries. Despite their use of three MPLS classes of service for data and one for voice, they needed finer grained control to adjust bandwidth between competing demands. Using Streamcore to increase network efficiency by controlling application flows at the data centers, Casino was able to:

- **Roll out new applications rapidly without adding bandwidth to the network**

- **Quadruple the throughput of email and Internet access, enhancing bandwidth utilization**

- **Establish business-aligned network policies for warehouses, restaurants, stores and other outlets**

Dispersed Global Network

Global organizations encounter unique networking challenges spurred by the heterogeneity of their environment. Streamcore provides a converged control point to look across this complexity and accommodate business priorities. Its unique Unified Mapping Tree provides one-click access to the three main data types (class, flow and packet) in a single window. Configure traffic control policies for applications using the same names, groups and rules used to monitor data and diagnose issues. Metrics are categorized by location, business unit,
IT service or other characteristic of your organization. This provides multi-dimensional views when analyzing performance.
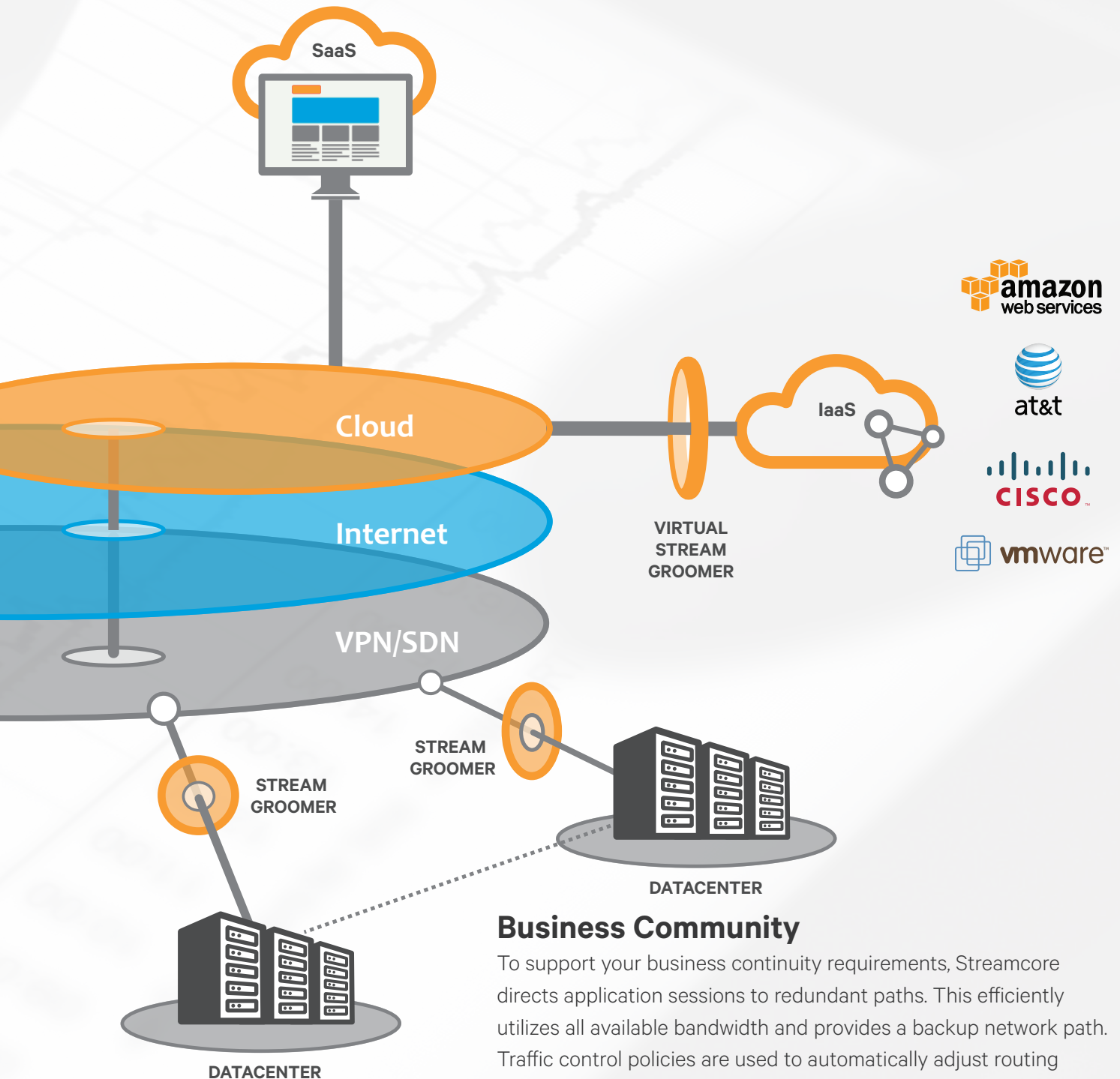

SATELLITE

BROADBAND

MOBILE

Communicating with Many Branch Offices

As branch locations multiply, so does the burden on your networking infrastructure. Streamcore applies separate controls to network traffic by location to prevent overloading of remote locations by one or multiple data centers. Traffic can be tailored literally down to the individual end user. A WAN acceleration software client provides an economical alternative for small sites.

Cloud-based Services

The adoption of Cloud-based applications – while beneficial –often leads to reduced control. Streamcore's patented bi-directional traffic control does not require appliances at both the enterprise and Cloud locations to optimize WAN traffic. This results in a highly cost-effective solution without diminished functionality. Cloud services traffic is prioritized by business importance.

Google™   ORACLE®   ■■ Microsoft

SaaS

amazon
web services

at&t

CISCO

vmware™

Cloud

Internet

IaaS

VIRTUAL
STREAM
GROOMER

VPN/SDN

STREAM
GROOMER

STREAM
GROOMER

DATACENTER

Business Community

To support your business continuity requirements, Streamcore directs application sessions to redundant paths. This efficiently utilizes all available bandwidth and provides a backup network path. Traffic control policies are used to automatically adjust routing of communications when a path or data center fails over and subsequently recovers.
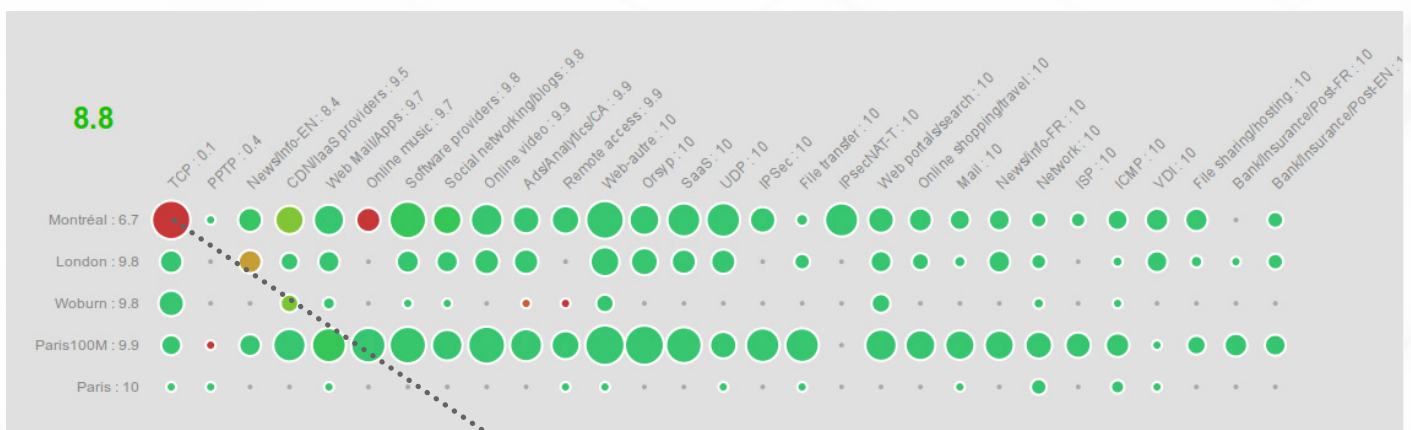
DATACENTER

Visibility

Streamcore's maps, dashboards and graphs equip you to visualize service levels at a glance. Working with unified traffic data in a single window simplifies root cause determination.
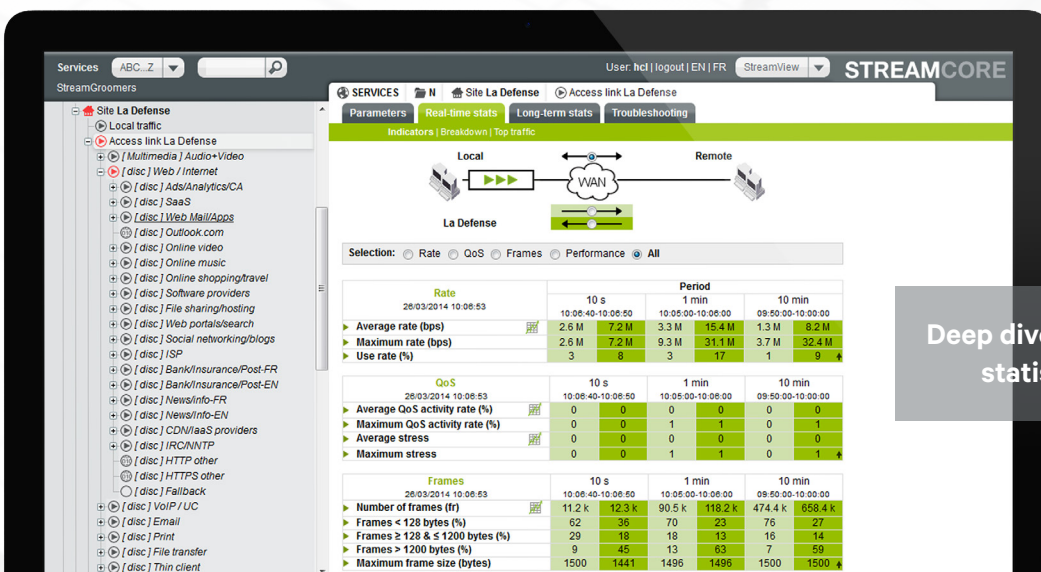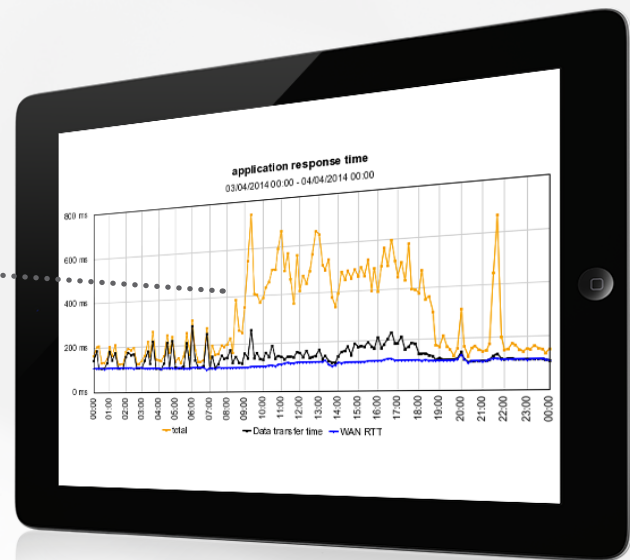

Global view of network performance alerts by location and application path

Thumbnail chart showing recent historic network SLA performance

Zoom in on hot spots that need your attention

Quickly isolate network performance issues from server issues

Deep dive into integrated network statistics and diagnostics

Automic is Your Network Performance Management Partner

Automic's singular focus is on automating and optimizing the performance of business systems. We are committed to ensuring your network performs to your demanding specifications. Some of the hallmarks of our three decades of business experience are:

- **97% customer retention**
- **Hundreds of ITOM-certified staff across 10 regional centers world-wide**
- **Multi-lingual 24x7 global support service**
- **Industry's only 'Customer-First' committed resolution service guarantee**

From phased implementations to turnkey deployments, our Professional Services and Education teams are there to assist you all the way. Automic is committed to becoming your indispensable partner.

For more information or product demonstration please visit www.automic.com

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