Raw CDRs, network usage data and billing data are the lifeblood that promotes both a healthy network and a healthy revenue flow. The Sonus Insight DataStream Integrator is designed to keep that data moving smoothly and seamlessly between your network elements and back-office systems for a more efficient, more profitable network.

The Sonus DataStream Integrator (DSI) creates an open channel of communication between your Sonus network elements and a wide range of third-party and proprietary back-office systems. The DSI solution provides rich insight into your network by delivering call and network data to a host of back-office applications—including billing mediation, fraud detection and traffic management—via customized DSI adaptors. The result is deep visibility into the day-to-day data of your voice network that drives informed decisions and efficiency throughout your business.

Whether deployed in a blended packet/circuit network or as part of an all-IP architecture, the DSI plays a vital role by collecting data from multiple Sonus elements, aggregating it, re-formatting it if necessary and distributing it to the appropriate back-office application as a single billing message or record. This efficiency of design is coupled with carrier-class scalability, availability, reliability and security to support the world’s largest and most complex networks.

Advanced Features
Customization and rapid integration are central to the success of your network’s Operational Support System (OSS). To meet those requirements, Sonus Networks has built extensible tools and advanced functionality into the DSI solution that anticipates the real-world challenges facing today’s network operators:

• Seamless integration with legacy systems through Sonus’ Bit Management Technology
• A single, simple GUI via the Sonus Insight Element Management System that allows network operators to quickly connect the DSI server with other Sonus network elements
• Two-pass mapping, which simultaneously distributes data to multiple destinations using a common data model, providing an important layer of insulation between voice network elements and back-office systems

A Flexible, Open Foundation
DataStream Integrator is built on an open, flexible architecture that provides robust interoperability in heterogeneous environments. Data distribution can be customized for third-party and legacy Sonus applications, including simultaneous transmission of specific CDRs to multiple endpoints. DSI supports a variety of data distribution standards including GR-508-CORE—Automatic Message Accounting (AMA); GR-1100-CORE—Billing Automatic Message Accounting Format (BAF); and GR-1343-CORE—Automatic Message Accounting Data Networking System (AMADNS).

A High-Performance Solution
The Sonus DataStream Integrator is optimized for maximum performance to meet the demands of the world’s largest networks. Enhanced scalability and availability features enable the Sonus DSI to process over 1,000 CDRs per second on a single node, and the DSI can be easily scaled beyond this using a clustered-node configuration to support growing network demands. Clustering allows independent DSI servers to function as a single DSI instance, providing maximum efficiency and reliability in high-traffic environments. An alarmtriggering system notifies network operators of potential issues with storage space, data or hard disk integrity, file transfers and more.
Network Data Security

IP technology introduces an important new dimension to the voice network architecture: data security. The DSI solution uses a layered security method of encryption, authentication and certification to ensure that data communications between your network and business systems remain safe and secure. Call data security is enforced at multiple levels through the use of SSL-enabled device authentication and secure remote access via Secure Shell.

A Smart Choice Now, a Safe Choice for the Future

With IP as their foundation, Sonus solutions are “future smart,” protecting your investment and your network for years to come. DSI servers are designed to migrate easily from a legacy circuit/packet network to an all-IP architecture. As carriers change or add third-party back-office applications in their network, custom adaptors can be built for the DSI solution to provide full interoperability into the future.

Sonus Global Services: A World of Experience

In order to match the unique requirements of your back-office system, Sonus offers DSI Custom Adaptor Development services. Experienced Sonus consultants will build and test DSI adaptors that promote the efficient flow of call data throughout your organization. As a result, network operators can quickly leverage network data for business intelligence, quality assurance and more.

About Sonus

Sonus is a leader in IP networking with proven expertise in delivering secure, reliable and scalable next-generation infrastructure and subscriber solutions. With customers in over 50 countries across the globe and over a decade of experience in transforming networks to IP, Sonus has enabled service providers and enterprises to capture and retain users and generate significant ROI. Sonus products include session border controllers, policy/routing servers, subscriber feature servers and media and signaling gateways. Sonus products are supported by a global services team with experience in design, deployment and maintenance of some of the world’s largest and most complex IP networks.

DataStream Integrator gets your data flowing:

- Generate and transform rich call and network data for deeper business insights
- Extend data visibility across best-of-breed, heterogeneous back-office systems
- Eliminate call data loss and retain revenue with a highly available, reliable solution
- Built to get the most value from your Sonus network elements, now and in the all-IP future

To learn more, call your Sonus sales representative or visit us online at www.sonus.net