

# DataStream Integrator

Make better informed decisions and increase enterprise efficiency through metrics that matter. Ribbon's DataStream Integrator (DSI) is "the" data capture and billing mediation solution to maximize your back-office productivity. With DSI, you get rich insight for billing mediation, service quality, fraud detection, and traffic management. Specific benefits include:

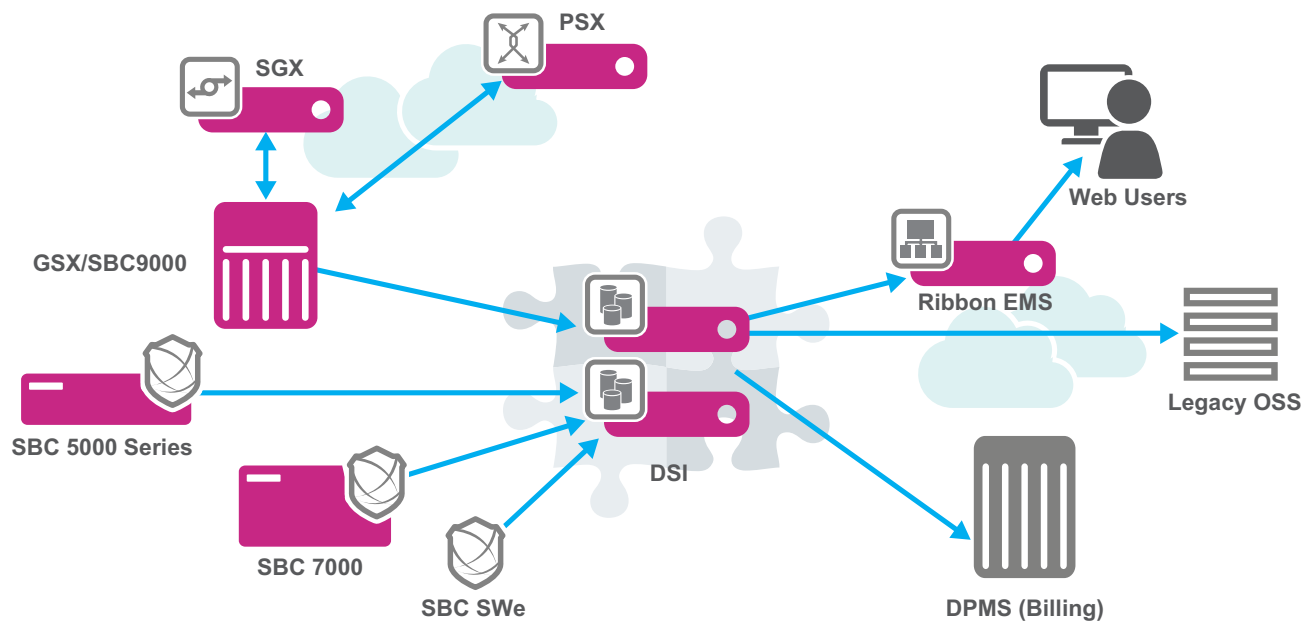


Figure 1 – DataStream Integrator architecture

- **Rich Mediation.** Supports any data transformation based on standard data types, user defined data types, formats, unary/ binary data operations, logical operations, indexing, bitwise operations, etc. DSI provides a correlation facility as well as merging or segregation of one or more distinct data streams. DSI can handle local time zone rendering w/ DST logic.
- **Rapid Deployment Time.** A data modeling facility enables rapid specification of source/target data streams and associated mediation (aka mapping requirements or business rules). XML-based specifications and mapping scripts permit rapid deployment to runtime DSI.
- **Flexible and Secure Collection/Distribution.** Support for a variety of industry standards as well as proprietary interfaces to meet specific customer requirements. DSI utilizes secure data exchange protocols to address customer security and compliance obligations. Note: For Sonus GSX only, DSI supports centralized collection of CDRs using a stream interface with feeds over the Wide Area Network.
- **Immediate Interoperability.** DSI provides separately installable clients/servers for immediate interoperability.
- **Designed for Heterogeneous Environments.** DSI provides robust interoperability in heterogeneous environments with support for customizable data distribution for third-party and Sonus applications
- **Selectable CDR Fields.** For Sonus GSX only, it is possible to downsize CDRs to fields of interest for better performance and more efficient data management.
- **Out-of-the-box Support for AMADNS.** DSI supports AMA billing formats and AMADNS Data Server to DPMS Interface (DDI) interface out-of-the-box.

DSI has three configuration models, supporting increasingly advanced services:

- **DSI-L0** provides essential services to capture raw network usage data.
- **DSI-L1** provides workflow capabilities for management and distribution of raw network usage data.
- **DSI-L2** provides advanced mediation capabilities for standards-compliant billing streams/interfaces, custom billing streams/ interfaces, reporting services for call logs, and tools for system and application integration with a variety of third-party and legacy applications.

## Virtual Machine System Requirements

### For Small Configuration (not supported for DSI L2 HA)

- 4 virtual CPU (vCPU)
- 8 GB of RAM
- 300 GB hard disk space
- 1 Virtual Network Interface Card (vNIC)

### For Large Configuration (VMWare)

- 11 virtual CPU (vCPU)
- 28 GB of RAM
- 450 GB hard disk space
- 1 Virtual Network Interface Card (vNIC)

### For Large Configuration (KVM/OpenStack)

- 8 virtual CPU (vCPU)
- 20 GB of RAM
- 450 GB hard disk space
- 1 Virtual Network Interface Card (vNIC)

## About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon visit [rbbn.com](http://rbbn.com).

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