

Dialogic® SIGTRAN Monitor

The Dialogic® SIGTRAN Monitor delivers high-performance, high-density protocol monitoring that enables applications to interrogate SIGTRAN traffic between active signaling points and trigger intelligent actions. SIGTRAN Monitor, a software-only application, joins Dialogic® boards (Dialogic® SS7HDC, Dialogic® SS7HDP, and Dialogic® SS7AM1) that have circuit-switched network monitoring capabilities.

The SIGTRAN Monitor enables SS7 messages to be monitored on SIGTRAN Stream Control Transmission Protocol (SCTP) associations executing over Ethernet. SCTP messages from one or more Ethernet ports can be selectively passed to a user application in real time. Because the SIGTRAN Monitor's API is similar to the Dialogic® hardware monitoring API for TDM, existing monitoring applications can be ported easily from monitoring TDM links to monitoring SIGTRAN links.

Applications that can take advantage of call-related monitoring activity include:

- **Network management** — Analyzers can produce comprehensive protocol traces, call statistics, information on bandwidth utilization, and more.
- **Missed call alert** — Fixed-line subscribers can retrieve a list of missed calls.
- **Advertising and marketing** — Advertising and marketing executives can use location-based messages and location-sensitive web pages to track behavior.

Features	Benefits
Monitors traffic over an Ethernet hub or managed switch as defined by simple configuration settings	Easily supports common variations in network architecture
Monitors multiple Ethernet ports simultaneously	A single software instance can monitor a high volume of traffic
Monitors user-selected types from M2PA, M3UA, and ISUP messages as well as those from specific network nodes	Minimizes the CPU and network load by capturing only those messages that pertain to the user application
Parses SCTP packets into discrete messages	Simplifies the user application by performing low-level, complex message decoding
Messages are delivered to user applications in configurable formats – with and without IP or SIGTRAN headers	Delivers different levels of information depending on specific requirements
Detects traffic congestion and defers sending monitored messages until congestion abates	Prevents monitoring from degrading the primary mission of the SIGTRAN service
Software solution installable on any system with Ethernet connectivity	Does not require additional hardware peripherals or system slots
Various capacities are available to meet network density and throughput demands	Matches capital expense to specific performance requirements

Technical Specifications

Execution platform Any Ethernet-enabled Linux or Solaris server or workstation

The events (messages) in Table 1 can be monitored.

Messages	Types of Information
SCTP	Data and control Acknowledgement
M3UA	Data and control
M2PA	Data Link status Data acknowledgement
ISUP	Data and control
TUP	Data and control
NUP	Data and control
SCCP	Data and control
BICC	Data and control

Table 1. Events and Types of Information Monitored

For more details, go to www.dialogic.com

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