

# Dialogic® Signaling Server Manageability Feature Summary

Dialogic has extended the implementation of SNMP on Dialogic® Signaling Servers to provide comprehensive reporting of signaling server states and alarms using SNMPv1, SNMPv2, or SNMPv3. The newly designed framework for signaling server system manageability is called Dialogic® Distributed Structure of Management Information (DSMI), and is available for purchase as a field-installable component for existing servers. The features and benefits of DSMI are described in Table 1.

Features	Benefits
Comprehensive MIB entries for key objects on the server including: <ul style="list-style-type: none"> <li>— Host and inter-SIU (RSI) links</li> <li>— SS7 and SIGTRAN links, linksets, routes</li> <li>— Access links</li> <li>— Memory, CPU, fans, drives</li> <li>— Ethernet ports</li> <li>— SS7 boards, PCM</li> </ul>	Provides visibility into critical signaling server operations
Comprehensive range of object states: <ul style="list-style-type: none"> <li>— Up: operational and available</li> <li>— Down: not available</li> <li>— Inactive: operational, but not available</li> <li>— Impaired: operational and available, but encountering service-affecting condition (for example, congestion)</li> <li>— Restarting: unavailable, but will soon be available</li> <li>— Quiescing: operational, but in the process of shutting down/being removed</li> <li>— Warning: operational and available, but encountering a non-service affecting condition</li> <li>— Event Indicator: reason the event occurred</li> </ul>	Allows customers to capture and report important conditions for each relevant object needed to maintain a detailed system profile
Full range of perceived severity: <ul style="list-style-type: none"> <li>— Cleared</li> <li>— Critical</li> <li>— Minor</li> <li>— Indeterminate</li> <li>— Major</li> <li>— Warning</li> </ul>	Allows customers to capture and report the quality of the component state
Includes MIB entries for existing “active alarms” on existing systems	Provides backward compatibility of management data
SNMP traps	Supplies reports of significant events and alarms that occur on the system
SNMP gets	Allows customers to interrogate object status using an effective communication mechanism
Built on Net-SNMP	Provides a universal management tool supporting SNMPv1, SNMPv2c, and SNMPv3; the Agent-X subagent protocol on IPv4, IPv6, IPX, AAL5; and Unix domain sockets. Allows field installation to reduce existing server upgrades.
SNMP subagent communicating with a SNMP master agent	Permits interoperability with other SNMP managed objects on the same system
Uses SMA SNMP when Net-SNMP is not present	Preserves compatibility with existing SNMP methods (backward compatible)
Network Time Protocol (NTP) enabled	Allows a system to remain accurately aligned with time used on other systems within an IP network; accurate time is required for SNMP operation as time is one of the components placed in the PDU sent to the manager from the agent on the server
Secure system data access through community strings (or SNMPv3)	Protects against unauthorized access to system internals

Table 1. Features and Benefits of DSMI

For more details, go to [www.dialogic.com](http://www.dialogic.com)

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