

DBDS Alarm Manager 1.0

Description

Digital Broadband Delivery System (DBDS) Alarm Manager 1.0 will provide system operators and system administrators with the ability to identify, troubleshoot, document, and clear alarms that occur on the DBDS network elements monitored by DBDS Alarm Manager 1.0. In addition, DBDS Alarm Manager 1.0 will permit both centralized and distributed access to DBDS alarm status for one or more sites.

As a result, corrective action for an alarm can be administered centrally, locally, or from a remote location. These options facilitate quick and efficient solutions to DBDS alarm conditions.

DBDS Alarm Manager 1.0 will also offer several fast and convenient help tools, such as context-sensitive online Help, Alarm Troubleshooting Help with electronic notes capability, and a topology map viewer. These tools will provide system operators with quick solutions to alarm conditions.

Key Benefits

DBDS Alarm Manager 1.0 will provide alarm management functions for DBDS elements including topology views of system status for multiple DBDS and Digital Network Control System (DNCS) sites. DBDS Alarm Manager 1.0 offers the following key benefits:

- **Reduce system downtime.** DBDS Alarm Manager 1.0 can help system operators to reduce system downtime with an overview of near real-time information regarding the operational status of critical DBDS elements. This overview of alarm status will facilitate centralized or remote alarm monitoring and maintenance dispatch. This monitoring capability will permit efficient and rapid corrective action in response to alarm conditions. Context-sensitive online Alarm Troubleshooting Help will also aid in determining corrective action. Operator notes can be added to the online Alarm Troubleshooting Help to develop an improved knowledge base regarding alarm conditions and suggested corrective actions. Alarm conditions can be configured to automatically trigger user-defined scripts.
- **Minimize performance impact to the DNCS.** Alarm management operations performed using DBDS Alarm Manager 1.0 will not impact the performance of the DNCS and other DBDS elements because the DBDS Alarm Manager server will run on its own hardware platform. Using this separate server platform will improve the performance of the DNCS when compared to other alarm management systems that operate on the DNCS and consume CPU and memory resources. In addition, the software can be self-installed.
- **Allow multiple users to access remote DBDS/DNCS sites.** The console for DBDS Alarm Manager 1.0 will be accessible from network-connected client PCs configured as described later in this document. This accessibility will allow multiple users to access remote DBDS/DNCS sites. Authorized users can monitor and configure connected DNCS and corresponding DBDS elements. Users will be able to manage DBDS elements and DNCS functions from remote locations, which will reduce the need for personnel to be physically located at the DBDS/DNCS sites. This feature will also allow system operators to pool critical technical resources.



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Basic Features

DBDS Alarm Manager 1.0 reports alarm conditions from the following DBDS elements and Alarm Manager components and processes:

- BIG chassis and the BIG card sets
- DBDS Alarm Manager server
- DNCS processes, disk and memory
- QAM, MQAM, GQAM and GoQAM modulators
- QPSK modulators and demodulators
- RNCS processes, disk and memory

Key Features

This section describes the key features of each software component of DBDS Alarm Manager 1.0.

Alarm Manager

- Displays aggregate view of alarms generated by DBDS elements, color-coded by alarm severity
- Provides context-sensitive online Alarm Troubleshooting Help for diagnosing and resolving alarm conditions
- Offers user-configurable options for filtering and displaying alarm information

Topology Manager

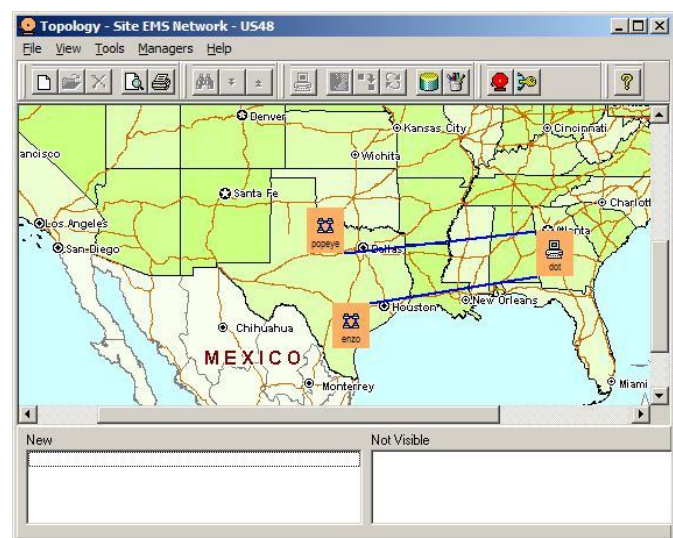
- Displays map-like view of the managed systems status, color-coded by the highest severity alarm present at the location
- Features easy access to DBDS elements (such as the DNCS, MQAMs, QAMs, and QPSKs), to view alarm status and launch configuration activities using the DNCS

Basic Security Manager

- Enables user login to the Alarm Manager and Topology Manager components
- Enables access control to the Alarm Manager and Topology Manager component functions

Timestamp	Alarm ID	Alarm Type	Alarm Summary	Alarm Severity	Device
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	0	Equipment	QPSK Demodulator Not Con...	4-Minor	QPSK D
1/20/2005 11:17:44...	1	Communications	DNCS Process Unable to Co...	5-Major	DNCS P
1/20/2005 11:17:44...	49	Equipment	MQAM Modulator Reset Det...	1-Status	MQAM
1/20/2005 11:17:44...	49	Equipment	MQAM Modulator Reset Det...	1-Status	MQAM
1/18/2005 3:42:02...	335	Equipment	GQAM Modulator Session D...	4-Minor	GQAM
1/18/2005 3:42:02...	2	Equipment	QPSK Modulator RF Level C...	1-Status	QPSK M
1/18/2005 3:42:01...	284	Equipment	GQAM Modulator Session D...	4-Minor	GQAM
1/18/2005 3:42:01...	90	Equipment	GQAM Modulator Draft Post...	1-Status	GQAM

Active Alarm List Window



Topology Manager Window

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Context-Sensitive Alarm Troubleshooting Help

- Offers alarm troubleshooting information based on the user's current action
- Features the ability to add field experience notes to develop an alarm troubleshooting knowledge base, which further improves user response to alarm conditions

Context-Sensitive Online Help

- Provides quick access to user help for DBDS Alarm Manager software features, functions, and options

Network Operations Center Functionality

- Configures DBDS Alarm Manager 1.0 in a Network Operations Center (NOC) mode
- Permits a NOC server at a remote NOC to access DBDS Alarm Manager servers at other DBDS site locations

Installation Requirements

Prior to installing DBDS Alarm Manager 1.0, the site must meet the following requirements:

- DBDS Alarm Manager Server platform: Sun Fire v240 (recommended) or Sun Ultra 2; configured with Solaris 8 and two Ethernet cards
- Client PC terminal(s): 750 MHz Pentium III or equivalent single CPU, 16-bit-color display adapter, 100 MB available disk space, configured with Windows 98, Windows 2000, Windows XP, or Windows NT OS

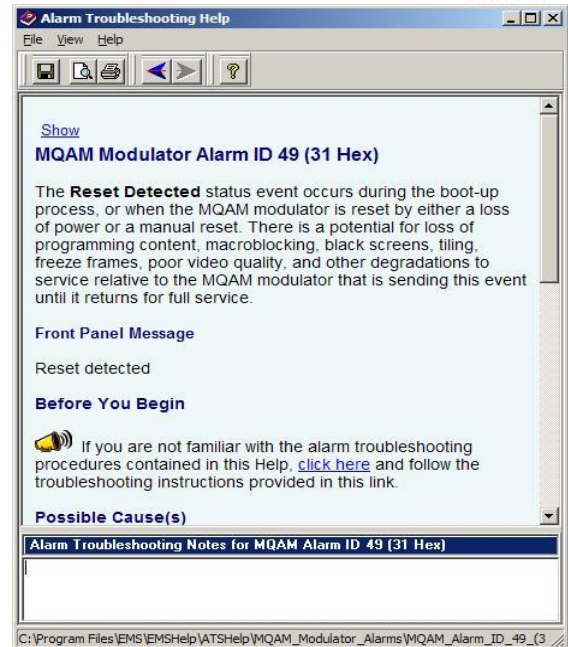
Important: Alarm Manager client software will *not* run on a PC with a dual-CPU configuration.

- Secure network connectivity from the DBDS Alarm Manager server to each client PC terminal
- Secure network connectivity from the DBDS Alarm Manager server to each managed DBDS/DNCS site
- Each managed DBDS/DNCS must be configured with a licensed copy of System Release (SR) 2.2 or SR 3.2 Service Pack 2, or later, and must be installed and operational for 2 weeks prior to installing DBDS Alarm Manager 1.0.

For additional details about the prerequisite requirements and the pre-installation checklist, refer to *DBDS Alarm Manager 1.0 Installation Instructions*, part number 745262.

Ordering Information

Contact your Sales Representative for product availability in your area.



Alarm Troubleshooting Help Window



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Part Number 7001023 Rev A
February 2005