Monitoring System Manager

▶ WebMSM

▶ Features & Benefits

Geographic and Network Schematic Hotspot Views Enable the Operator to Drill Down to Pinpoint Errors in a System

Remote Monitoring and Control via Industry-standard SNMP Provides Remote Access of All Units in a Monitoring Network from a Central Control Point Using TCP/IP over Ethernet

At-a-Glance Status of Complex Digital Broadcast Networks for 24x7 Monitoring of Transport Streams

Java and SNMP for Platform and Operating System Independence

MPEG-2, DVB, ATSC and ISDB Support Means Complete Solution for All MPEG Formats

Control of MTM400 User-defined Service Plans[1] for Template Checking of Network/Service Information Ensures Correct Content is Delivered to the Viewer

Single Point Monitoring and Control of Multi-standard (ATSC/DVB/ARIB) Networks

Flexible and Scaleable Ordering Configuration to Ensure Cost-effective System for Number of Monitoring Probes Required

▶ Applications

Monitoring of Digital TV Broadcast Transmission Networks

Monitoring of Digital TV Contribution and Distribution Networks

[1] Cost option.
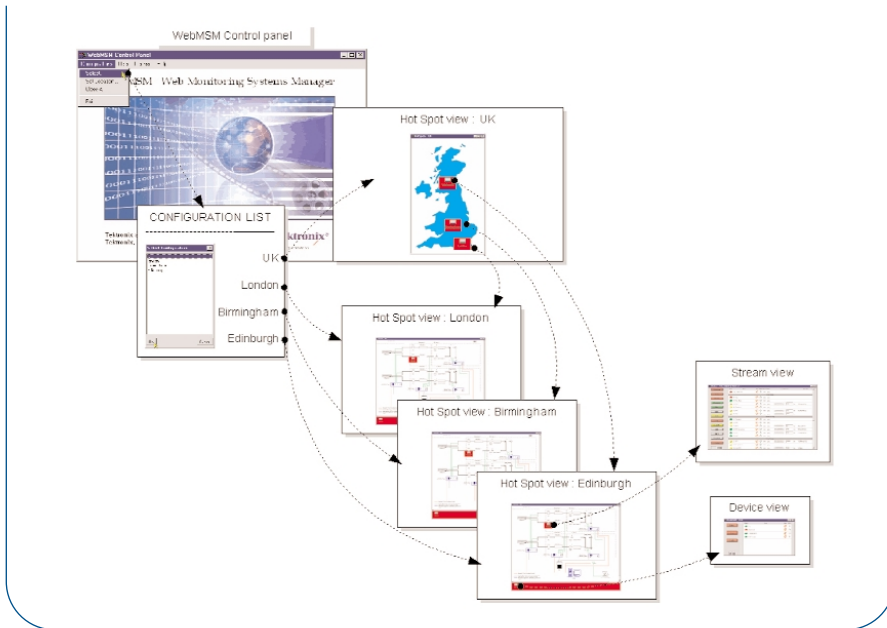
Product Information

The WebMSM Monitoring System Manager is an installable application that enables complete visibility of the error status of a transmission network, as measured by the MTM400, from a standard Web browser. The network manager is able to customize the user interface, building up geographical maps showing the location and status of the monitoring network as well as mimic diagrams of the transmission network. When a fault occurs, the corresponding monitoring point is highlighted in red, enabling the network manager to drill down to the individual monitor and determine the nature of the fault. The WebMSM can be used to manage a mixed network of confidence and diagnostic monitors, displaying the appropriate level of information for each type of monitor.

[2] Separate datasheet available.

The WebMSM MPEG Monitoring System Manager in conjunction with Tektronix' MTM400[2] real-time TR 101 290-based MPEG monitoring units provides a comprehensive real-time monitoring system for digital television networks. In a typical broadcast network, the monitoring units will be placed at various points along the broadcast chain (for example, at contribution points as well as at the final transmission site), but are controlled from a centralized location. The WebMSM provides the central monitoring and control console enabling central feedback display, remote control and configuration of monitoring points. These points are defined in a configuration file, which is easily modified as system monitoring requirements change and new services are added or removed. The resulting system can work with any combination of cable, satellite or terrestrial transmissions using any MPEG-2-based standard including the DVB, ATSC and ISDB standards.

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Monitoring System Manager

▶ WebMSM

The WebMSM application requires only a standard Microsoft Java-enabled HTML Web browser. It also utilizes industry-standard SNMP, so it can work with Internet/Intranet links to remote MPEG-2 Monitors; network security is available to prevent unauthorized access to the network. More than one instance of the WebMSM can operate concurrently in a network, permitting (for example) a diagnostic engineer to use a dial-up link from a remote location without affecting the main central console display. Each instance can use a different configuration file to permit customized views. The WebMSM can also be used to centrally manage and schedule monitoring probe configuration files including user-defined service plans (templates) and test configurations.

The WebMSM is licensed on a per probe basis to ensure the system is scaleable according to the number of probes required, ensuring the system is cost effective for the number of monitoring probes required.

The WebMSM's unique combination of template files, configuration files, error prioritization, remote parameter and test setting provide an extremely powerful but easy-to-use comprehensive monitoring system that can quickly and easily be set-up or modified to the exact specification required by operators and service providers.

The WebMSM is essentially comprised of four applications, described below.

Hot Spot Application

This allows the overall structure of the monitoring system to be displayed through hotspots placed over a user-defined background. Each hotspot represents the status of a stream, device or a lower level hot spot view. Pressing a button takes the user to the application representing the view it is linked to (i.e., another hot spot application, device application or stream application).

In this way, hierarchical views of the system can be developed, and users can control and monitor multiple devices.

Device Application

The device application enables the user to monitor and set parameters specific to the monitoring probe device itself.

Stream Application

The stream application enables the user to monitor and set parameters specific to the signal being monitored.

Configuration Editor

The configuration editor enables the user to generate the required hot spot views and configure other aspects of the WebMSM.

The diagram below shows a simple system:

Hot Spot - UK

Hot Spot - Edinburgh   Hot Spot - Birmingham   Hot Spot - London

Device   Stream
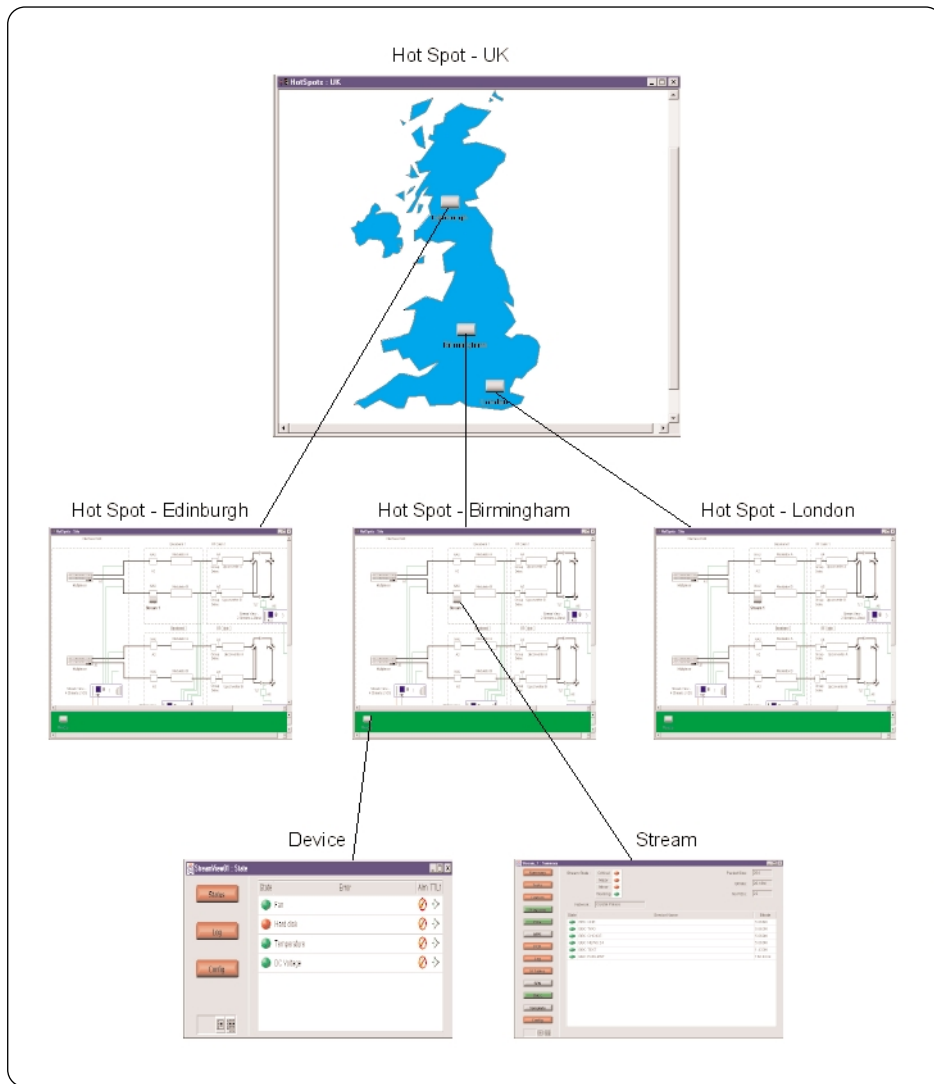
▶ Characteristics

Minimum Host Platform Specification

Processor – 500 MHz Intel Pentium Processor.

Operating System – Windows 98, NT, 2000 or XP.

Disk Space – 30 MB free disk space.

Ethernet – 10/100-Base T; RJ45.

Installed Software – Microsoft Internet Explorer, version 5.0 minimum; Microsoft Java Virtual Machine installed, version 5.0 minimum.

RAM – 256 MB.

CD-ROM Drive – 8x.

Display – 1024x768 pixel video monitor with 256 colors.

Monitoring System Manager

▶ WebMSM

▶ Ordering Information

WebMSM

Web-based monitoring system management software. Installable application with license for monitoring up to four monitoring probes.

Options

WebMSM-8 – License for adding up to 8 monitoring probes to monitoring management software.

WebMSM-16 – License for adding up to 16 monitoring probes to monitoring management software.

WebMSM-32 – License for adding up to 32 monitoring probes to monitoring management software.

WebMSM-64 – License for adding up to 64 monitoring probes to monitoring management software.

WebMSM-UL – License for adding unlimited monitoring probes to monitoring management software.

Field Upgrade Kits

WebMSMF16 – License for adding up to 16 monitoring probes to monitoring management software.

WebMSMF32 – License for adding up to 32 monitoring probes to monitoring management software.

WebMSMF64 – License for adding up to 64 monitoring probes to monitoring management software.

WebMSMFUL – License for adding unlimited monitoring probes to monitoring management software.

Our most up-to-date product information is available at:
www.tektronix.com

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