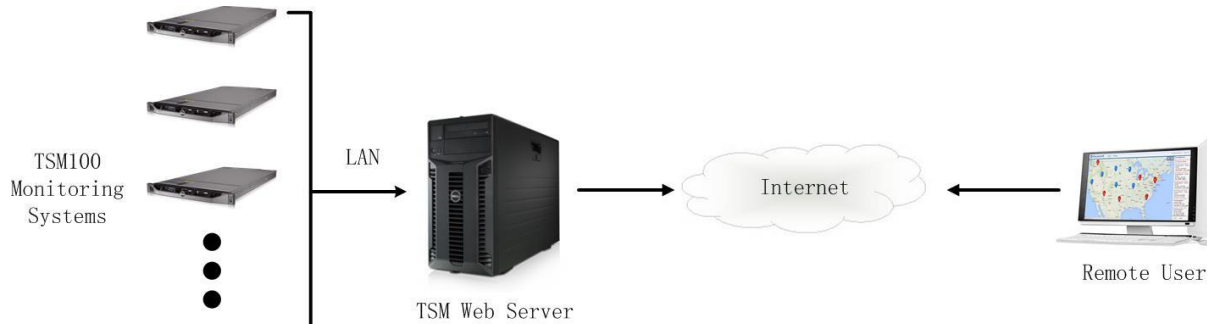


# Product Brief

Video QoS Monitoring Web Management Software - TSM Web

## Video QoS Monitoring Web Management Software - TSM Web

The TSM Web is a web service program for managing Mividi Video Monitoring Systems or Multiviewer Systems. It provides an Internet gateway to Mividi Video Monitoring servers in order to remotely access test results and configure the test servers using the Internet.



Schematic of TSM Web system

### Gateway to Monitoring Servers

The monitoring servers in head-ends machine rooms may not have direct Internet access. The TSM Web can connect to one or more of these servers and functions as an intermediate gateway to let users access test results and configure the test systems using the Internet.



Test servers management page

### View Stream Content and Test Results

Provides a detailed view of TS test results and video QoS data on each monitoring system, including:

- TS error monitoring based on DVB Test Guideline TR 101 290.
- Detailed TS information, including PIDs and elementary stream bitrate, MPEG, DVB and ATSC metadata tables.
- IP layer test results, including IP flow bitrate, media loss rate and delay (MDI index) measurements.
- HTTP session statistics, including media downloading time, media file size, etc.
- Video and audio quality measurements such as black or frozen frames.



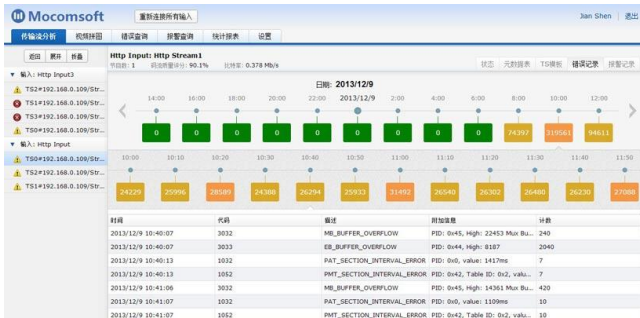
TS layer analysis - TR101 290 errors



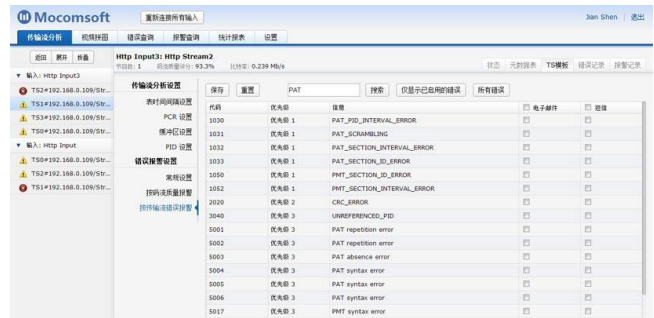
TS layer analysis – PID analysis

## Error Logs and Alarms

View and search error and alarm records stored on each monitoring servers. The TSM Web provides a user-friendly GUI for finding error and alarm messages. Error and alarm records are summarized and grouped for different time periods and can be conveniently drilled down in order to find more specific information.



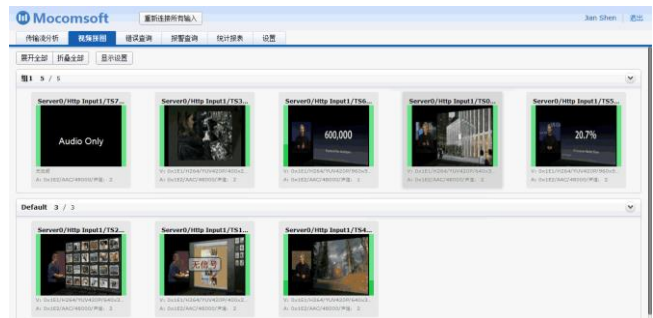
Error records page



Monitoring parameters configure for test servers

## Key Frame Thumbnail Display

The TSM Web displays thumbnails of different streams being monitored in a single page to provide a quick visual verification the service is alive with expected video service. The thumbnails from different streams can be grouped according to users' preference.



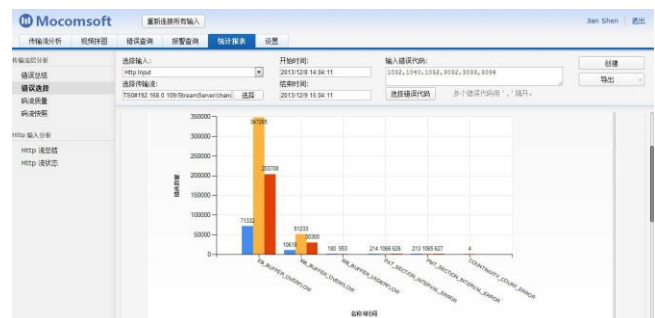
Key frame thumbnail display page

## Statistics and Report

The TSM Web can be used to create several types of reports, including TS, IP and HTTP Analysis Reports. TS Analysis Reports are generated per stream and include: Error Summary Report, Error Selection Report, Transport Stream Quality Report and Transport Snapshot Report. IP and HTTP Analysis Reports are generated per input and include: Streaming Summary Report and Streaming Status Report.



Report – Error summary report



Report – Error selection report

Memory: 4GB DDR2 SDRAM  
 Hard Disk: At least 500 GB Hard Disk, DVD-RW  
 Operating System: Windows® 7, 8 or Server 2008  
 Browser: Chrome, Firefox, Safari, and IE 8 and later versions

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