

CLIENT

The client is a Fortune 100 company

Server Farm Heat Monitoring System (SHMS)



Scope of Work

- The complete Hardware design and development of SHMS.
- Software application development of SHMS.
- Design and development of the Metal enclosure.
- Design and development of the Plastics skin/cover.
- Hardware and software testing.

Executive Summary

SHMS (Server Heat Monitoring System) contains Heat Sensing Device (HSD) and windows-based application, which is used to, monitors the temperature.

HSD is essentially terminal devices used in data centers to monitor temperature through host application. The communication between the application and HSD is established through Ethernet. HSD is equipped with a 10/100 Base-T Ethernet port that gives instant connection to the SHMS host. It also has one serial port for configuring HSD box and to debug if needed.

SHMS is an enterprise-wide management application, which is used to receive temperature value from sensors connected to HSD. SHMS is used to monitor temperature from various sensors. SHMS will receive the temperature-related data from sensors in intervals of 1 minute (which is configurable). It also provides an option to archive data for future analysis.

Client Requirements

The client required a product which enables the user to read the temperature recorded for various sensors and understand their behavior. The information provides users to take corrective measures whenever required. The features of this application that help the users in understanding and taking corrective measures are;

- a. Sensor Configuration
- b. Communication to operator
- c. Data Archiving
- d. Reports
- e. Upgrades
- f. Expert System

Solution Provided

The solution that was provided to the client consisted of

Server Heat Monitoring System

This system

- Allow users of SHMS application to define the system configuration.
- Verify the configuration by sending the request to 'HSD', a backend application.
- On successful verification, the data (temperature readings) based on configuration can be received by SHMS application by sending the request.
- Record all the readings sent from HSD application to SHMS.

Temperature Database Service

- Maintains all the data generated by the system.

Temperature Visualization Service

- Allow users of HSHMS application to view real time data in the graphical form or in textual form.

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