

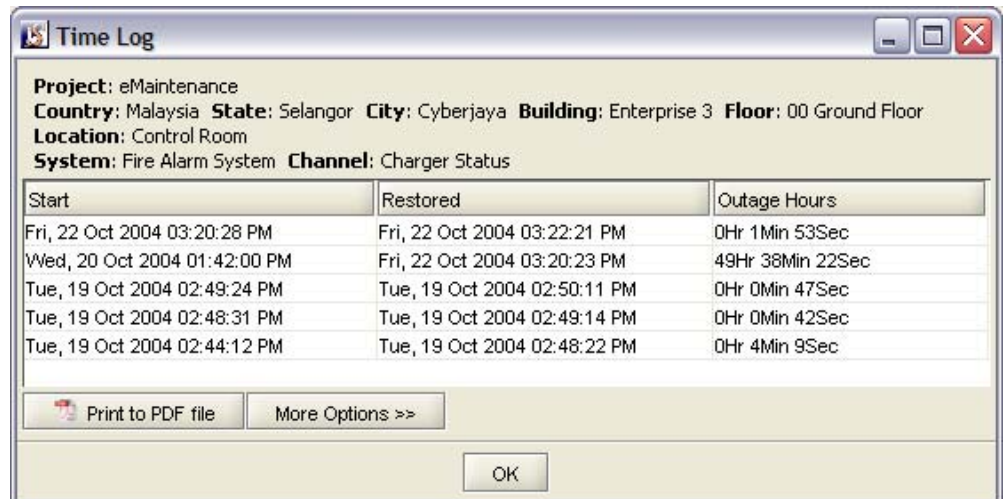
iSCADA for the Maintenance Industry

The maintenance industry can now harness the combined power of the Internet and engineering robustness of iSCADA to transform conventional maintenance management into eMaintenance.

eMaintenance is a maintenance management concept where maintenance tasks are managed electronically using real time equipment data obtained over the Internet. It introduces an unprecedented level of transparency and efficiency into the entire industry. Real time remote monitoring of equipment status coupled with programmable alerts enable the maintenance operator to respond to any situation swiftly, thereby enhancing system availability.

Transparency

Since every event is recorded in a centralized server, an audit trail is automatically created; giving management at all levels direct access to raw and processed maintenance data. How promptly a particular failure was attended to, who was responsible and when was it resolved are some of the useful data available to any authorized user from any Internet connection.



Time Log

Project: eMaintenance
Country: Malaysia **State:** Selangor **City:** Cyberjaya **Building:** Enterprise 3 **Floor:** 00 Ground Floor
Location: Control Room
System: Fire Alarm System **Channel:** Charger Status



Start	Restored	Outage Hours
Fri, 22 Oct 2004 03:20:28 PM	Fri, 22 Oct 2004 03:22:21 PM	0Hr 1Min 53Sec
Wed, 20 Oct 2004 01:42:00 PM	Fri, 22 Oct 2004 03:20:23 PM	49Hr 38Min 22Sec
Tue, 19 Oct 2004 02:49:24 PM	Tue, 19 Oct 2004 02:50:11 PM	0Hr 0Min 47Sec
Tue, 19 Oct 2004 02:48:31 PM	Tue, 19 Oct 2004 02:49:14 PM	0Hr 0Min 42Sec
Tue, 19 Oct 2004 02:44:12 PM	Tue, 19 Oct 2004 02:48:22 PM	0Hr 4Min 9Sec

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Efficiency & Availability

With a 24x7 monitoring system in

Event	Location	Building	Floor	Actions	Date & Time
Humidity High	Data Center	Enterprise 3	01 First Floor	  	Thu, 4 Nov 2004 09:43:16 AM

place, routine physical inspections can be reduced to a minimum, drastically improving the efficiency of the entire maintenance management. In the event of any failure, maintenance personnel are alerted by SMS and email immediately. Prompt actions in restoring system failures will ensure minimal downtime and high availability.

Maintenance Benchmarking

Maintenance benchmarking indices like Availability Index, Failure Count and Outage Hours are dynamically computed to benchmark the quality of maintenance. This is useful for comparing the effectiveness of maintenance from one period to another. It may also be used to objectively evaluate the service level of maintenance contractors and facility managers.



Predictive Maintenance

Remote real time condition monitoring enables maintenance engineers to detect abnormal behavior. Actions can be taken to prevent actual failure. For example, miniature temperature sensors embedded in bearings give early warning of over heating.

