

iSCADA[®]

SCADA solution for the masses

Bringing all your
appliances
to your **desktop**

Multiple Systems

Data Anyone

Embedded Internet

Real-time data

Data Anywhere

Man-Machine Communications

eMaintenance Management



iSCADA[®]

SCADA (Supervisory Control and Data Acquisition) technology provides the means to monitor and control distributed systems from a central location. They are used widely in the telecommunications, power, water & waste control and transportation industries. SCADA systems are typically deployed with dedicated communication infrastructure, proprietary software and hardware.

iSCADA, on the other hand is an Internet-based SCADA solution that utilizes the public Internet infrastructure as the data communication medium. It uniquely combines traditional SCADA technology with the open data communications protocols, services and data formats of the public Internet to deliver cost-effective and easy-to-use SCADA solutions for the masses. It is now feasible to monitor and control virtually anything anywhere in the world.

Devices World delivers iSCADA solutions on a managed services model, making it easy for any organization to deploy an enterprise-wide monitoring solution with the following benefits.

No capital investment required for Infrastructure or Software

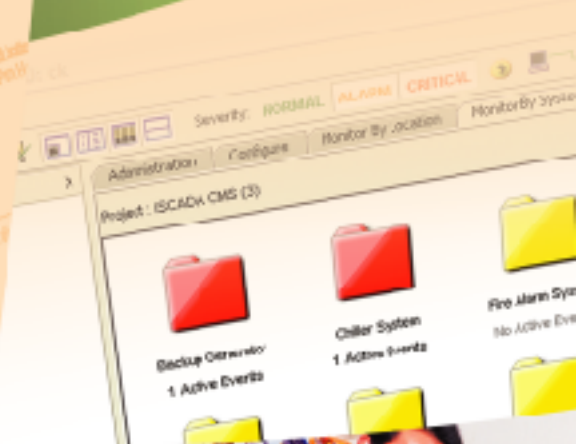
You enjoy the benefits of a SCADA system without having to invest in, or maintain, the expensive infrastructure and software associated with such a system.

Highly scalable

You may begin with a subscription to manage one asset now, and add up to thousands incrementally over time without having to upgrade any hardware, software or networking infrastructure.

Monitor anything or everything

Assets that were previously not economically feasible to be managed remotely can now be brought online one at a time or all at one time. With increased electronic supervision, you will benefit from improved uptime, more efficient planned maintenance, reduced field technician cost and enhanced transparency in maintenance management.



System Architecture

Connect any appliance to the Internet with Embedded Internet Gateway



Any existing appliance can be easily Internet-enabled by retrofitting an **iSCADA** Gateway, which is a compact low cost device that gathers information from your appliance and transmits them to the **iSCADA** server. Users may monitor and control their appliances remotely from any Internet connection using only a browser.

Alert

Receive mobile alerts when events occur

Monitor

monitor equipment status in real time

Control

Off-site remote control anywhere & anytime

Report

Generate historical reports online

Analyze

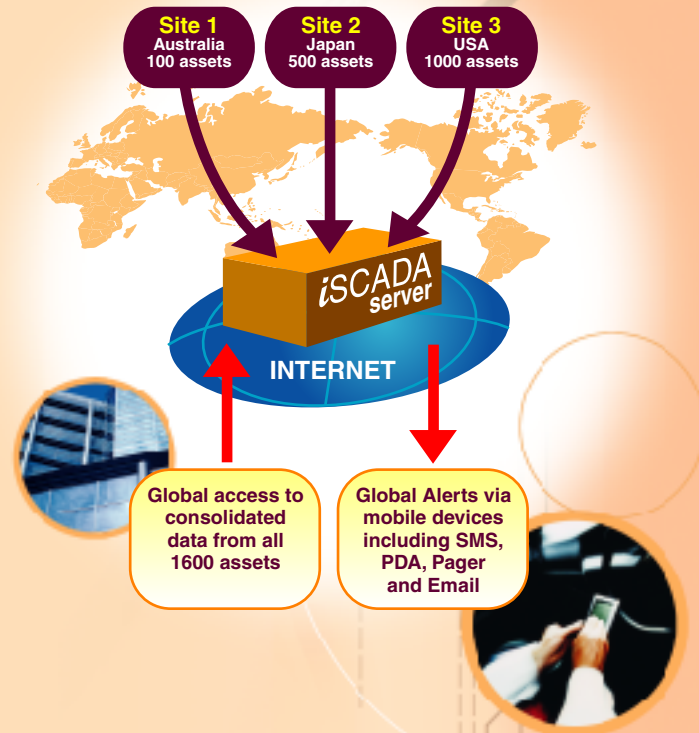
Perform statistical analysis & compute benchmarking indices

iSCADA® Data Anywhere

With traditional SCADA, CMS or BAS, your data is "locked" in a control room where it is accessible only by engineers trained to operate the proprietary systems.

Released from the confines of the control room, your valuable data at iSCADA is delivered via the Internet directly to their rightful places - desktops of decision makers, conference rooms, offices of control engineers, even site offices of maintenance contractors.

Being an end-to-end Internet-based system, assets managed by iSCADA can be spread across the globe. It offers the most efficient and economical means to acquire data from anywhere.



iSCADA® Data Anyone

iSCADA is designed for use by anyone, not just control engineers. Data is delivered through the universal user interface - the web browser - and information is organized in a familiar file folder system. No in-depth computer expertise is required.

The value of any information increases with the number of people using it. Your iSCADA system administrator may create unlimited number of user accounts to access the system. These may include top management, subsidiary heads, engineering department, finance department, maintenance contractors and field technicians.

Answers to critical questions may be obtained by anyone in the organization from a single login to the iSCADA system.



Top management: What is the overall Availability Index of all assets across the enterprise for this year?

Middle management: Is the newly appointed contractor performing better than the previous one?

Engineering: Does the system trip more frequently in winter or in summer?

Technician/contractor: What is the most recent alarm, and where is it coming from?

Get the answers immediately instead of waiting for departmental reports.

System Features

Manage Multiple Projects

iSCADA users may manage multiple projects from a single Graphical User Interface. Using the familiar file folder system, events from different projects are organized in their respective folders for easy access.

This feature enables enterprises to consolidate all their monitoring and control of remote field assets into a unified solution. Top level management is able to obtain enterprise-wide real-time system status from a single login from any Internet connection.

Monitor by Location or by System

A local branch or country subsidiary may be interested to view data from a specific locality only. Likewise, an air conditioning technician would not want to be distracted by events from a fire alarm system. The same set of data can be organized by location or by system to suite each user's requirements.

When an entire enterprise's remote monitoring functions are managed by iSCADA, the volume of data can be very huge. This feature ensures that there is no information overload, and that users are only presented with relevant data.

Consolidated Online Reporting

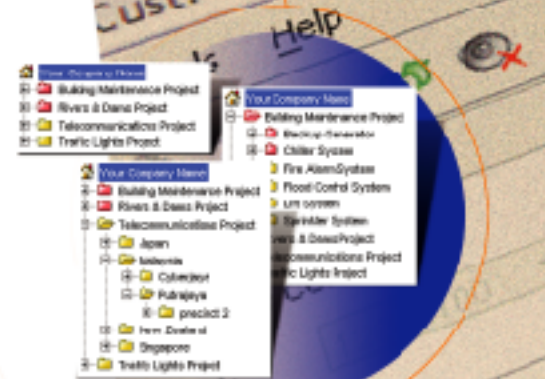
Since the entire enterprise's data is available to any level of management from the desktop, iSCADA eliminates the traditional practice of generating and compiling reports from disparate systems for higher management.

When needed, iSCADA generates customizable historical reports that can be converted into temper-proof PDF files for subsequent transmission by email.

Clean & Simple Statistical Analysis

Key Performance Indicators (KPIs) are dynamically computed for assets at any level of an enterprise - by project, by location or by system.

Availability Index, Failure Counts and Outage Hours are available at the enterprise's level down to the event level for every piece of asset.



Some examples how iSCADA can benefit your business.

Maintenance Industry

iSCADA transforms conventional maintenance management into eMaintenance, introducing an unprecedented level of efficiency and transparency to the industry. Building services like electrical, air conditioning, fire protection and security can be maintained more efficiently when they are globally supervised. iSCADA consolidates building services status from multiple buildings, with or without building automation systems (BAS).

Utilities Sector

Public utility companies that have already invested in traditional SCADA systems often limit their monitoring to mission critical points or sites only, due to the high cost involved. With iSCADA, the price/performance equation is drastically changed to a degree that makes it economically justifiable to extend remote supervision to any point or any site.

Insurance Industry

iSCADA brings the status of fire safety, site security, and plant maintenance status at insured premises to the insurers' desktop in real time. More flexibility, more power and more control in managing risks in the Internet age.

Vending Industry

An out-of-stock vending machine invites vandalism and is an opportunity loss for sales. iSCADA helps scheduling of restocking and maintenance trips.

System Specifications

Monitoring & Control

- Real time monitoring of digital and analogue inputs.
- Event filtering by severity level, location and system.
- Continuous or conditional data logging at Server.

Alerts

- Unlimited delivery of mobile alerts through Email, Pager or SMS.
- Custom or automatic system generated messages.

Logs, Reports & Statistics

- Customizable reports delivered online & in PDF format.
- User-definable statistics with multiple algorithms.

Device-Server Communication

- Event-driven connection to Internet with automatic disconnection or always on.
- Device wake up on demand.
- Automatic system health check.

Client-Server Communication

- Dual mode: (1) Secure https connection via web browser
(2) Java rich client GUI delivered over Java Web Start technology.
- Ability to work online and offline.

Internet Gateway Device

- Internet Connection via PSTN, wireless GSM modem, GPRS or Ethernet.
- Built-in data logger with 10 inputs (programmable as analogue or digital), and two digital outputs.
- User programmable individual hardware password and data encryption.
- Built-in RS485 network controller.
- Supports up to 15 slave devices.

Slave Device

- Fully plug and play, with automatic addressing and automatic self-configuration.
- 10 inputs (programmable as analogue or digital), and two digital outputs.

Specifications subject to change without notice.