CTI Resources is a Malaysian owned company specializing in the fields of SCADA & Telemetry, Industrial Automation, Control Systems, Operation & Performance Optimization AND Access Control & Time Attendance System. At CTI Resources, our team enforces our core values of Innovation through Sharing, Delivering with Competence along with strict guidelines for project execution with focus on quality and efficiency to ultimately deliver unsurpassed service and support to our clients.

We are dedicated to customer satisfaction and the development of strong client relationships through providing exceptional services and support. Our approach is simple, focus on working intimately with our clients to facilitate an open dialogue environment. This allows us to better determine their risks, targets and objectives to ensure we deliver a final product that is of exceptional quality and fit for purpose, while remaining conscious of budget and schedule.

Our expertise involve:
- SCADA and Telemetry Solutions
- Biometrics and Surveillance Solutions
- Building Intelligent and Living Technology Solutions
- Industrial Automation and Information Management Solutions
- Energy Management and Performance Optimisation with OEE+E
- Wireless Communication – LTE/3G/EDGE/GPRS, Radio Solutions
- Training & Consulting

Registered with:

COMPANY OVERVIEW

Innovative    Professional    Committed
MOX product range is planned technology that is integrated to fit the entire spectrum of your control needs. MOX Controller is packed with high performance building blocks that in combination with other products within the MOX range fit together perfectly to create a powerful and flexible automation solution. The system will be found in all process intensive applications across a wide variety of industries.

Citect SCADA is a reliable, flexible and high performance system for any industrial automation monitoring and control application.

Citect Historian optimize operational efficiency by providing a powerful, enterprise-wide reporting tool that collects, historicizes and delivers meaningful reporting data from multiple, disparate systems.

Citect HMI is an entry level HMI (Human Machine Interface) software designed for OEMs. It is ideal for those who wish to gain a competitive advantage by leveraging the strength of a world-class HMI offering.

Special Features on MOX Controller

- Modular Construction
- Open Systems Interconnection/Architecture
- Full System Redundancy
- Expandable and Scalable I/O Architecture
- Enterprise Ready Solution
- Pentium Based Real Time Processing Platform for open controller
- Powerful 32bit ARM processor 400Mhz for MOX IoNix/ Unity
- Intelligent Microprocessor Based Platform
- Integrated IEC61131-3 Applications Development Environment
- Support of various Communications Standards
- Wide Operating Temperature Range
- User Configurable Module Specific Options
- Short Circuit and Open Wire Detection on some Modules
- Automatic Fault Detection and Shutdown
- Zone 2 Certified
OPMATION & PERFORMANCES

Enabling Energy Management in the Production Environment

OEE is a well understood metric that can assist in the optimization of production processes (availability, performance and quality). However, this tested formula lacks an energy efficiency component. By considering energy, in addition to OEE, the effectiveness of your assets can be maximized.

Ampla: OEE+E

- Gauges OEE and displays it as a KPI for monitoring and improvement. When combined with the additional energy-related knowledge, asset optimization is achievable.
- Connects to multiple plant and business systems, collects required data and presents it as easy-to-understand, real-time intelligence for productivity analysis, data mining, querying and reporting.
- Tracks OEE with energy over consumption events in the same context.
- Is a simplified, out-of-the-box application that can easily integrate with existing automation architectures.

Overall Equipment Effectiveness and Energy (OEE+E) is an option of Ampla.

Benefits at a glance

Optimize OEE

- Reduce plant stoppages
- Identify and account for ‘hidden’ slow running events
- Reduce production inefficiencies
- Increase asset utilization and equipment uptime
- Decrease overall cost per production unit
- Identify bottlenecks and deliver data on variations and stoppages.

OPTIMIZATION

Optimize your power network with data-driven decisions

StruxureWare Power Monitoring Expert software delivers the integrated information for maximizing network reliability and performance.

Use Power Monitoring Expert software for energy efficiency applications

- Identify billing discrepancies and measure energy supply contract compliance
- Measure efficiency, reveal opportunities and verify savings
- Allocate all energy (WAGES) costs to departments, processes, shifts, lines, or equipment
- Reduce peak demand and power factor penalties
- Enable participation in load curtailment programs (e.g. demand response)

Use Power Monitoring Expert software for optimizing equipment utilization

- Leverage existing infrastructure capacity and avoid over-building
- Support proactive maintenance to prolong asset life.

Use Power Monitoring Expert software for power quality & reliability applications

- Verify the reliable operation of power equipment and proactively optimize the electrical distribution network
- Improve response to power-related problems and provide information to help proactively assess potential issues
- Validate that power quality complies with the energy contract

Ampla: OEE+E

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Rubber Gloves Industry

Automotive Industry

F&B Industry

OEE is tracked with energy usage over consumption events in the same context.

Real-time monitoring, alarming, and power quality analysis helps you avoid critical conditions that can cause equipment failures and downtime. Track consumption and the cost of power, gas, and other resources, and allocate costs by building, department, or process. The software helps you uncover energy waste, unused system capacity, and shows new ways to extend equipment performance and life span.

Plus, cutting-edge flexibility let you extend your power management system at your own pace, and allows for an open system with the integration of third-party devices and systems. Save thousands of engineering hours with ready-to-use device drivers, preconfigured tables, views, and reports dedicated to power and energy management.

Rubber Gloves Industry

Automotive Industry

F&B Industry

OEE is tracked with energy usage over consumption events in the same context.
Artesis MCM

Artesis MCM monitors the condition of equipment driven by an electric motor, effectively using the motor itself as a sophisticated transducer. It requires only connection into the motor’s electrical supply, avoiding the need for specialised sensors. Because Artesis MCM is permanently installed, it provides continuous fault monitoring and doesn’t depend on expensive manual data collection.

Artesis AMT-Toolkit Services

Artesis AMT-Toolkit Services uses MCM technology onto a portable platform that will provide an instant condition assessment report indicating existing electrical and mechanical faults of the measured equipment. Besides, it also provides energy efficiency information and possible remedies to the existing electrical/mechanical faults.

Artesis MCM is a patented solution to condition monitoring, providing all the benefits without the high complication and cost of traditional systems.

In general, Artesis MCM uses advanced processing algorithms to monitor the condition of the connected equipment and simplifies predictive maintenance to answer the following questions:

• What’s wrong with my equipment?
• What do I have to do?
• How soon do I have to do it?

Artesis MCM can be applied to any three phase motor driven equipment such as conveyor, water pump, air blower, cooling tower fan, air compressor, chiller, and even generator.

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AMT Toolkit uses three phase voltage and current signals which these signals are obtained from MCC (Motor Control Cabinet) through current sensors and voltage cables.
The Viola Systems effectively integrates and expands your Ethernet, remote locations and mobile vehicles or serial devices to management systems via wireless EDGE / GPRS / 3G / LTE Network. The internal router, port forwarding and VPN tunneling able to provide secure integration to local area networks (LAN). Mobile operator independent systems also can be built with Viola M2M Gateway which provides Firewall, VPN and two way EDGE / GPRS / 3G / LTE communication virtual static IP addresses for Arctic devices. No distance limitations as Global systems are possible if GSM / GPRS / EDGE / 3G / LTE network is available. It has provide a seamless communication solution for most of the applications and take advantage of the efficient and cost effective.

**Industrial LTE / 3G / EDGE / GPRS Communication Solutions Applied on:**
- SCADA system
- Expand Ethernet devices to LTE / 3G / EDGE / GPRS network
- Provide Internet access to locations without fixed connections and mobile vehicles
- Static IP addresses with Viola M2M Gateway or operator APN
- Video Surveillance systems
- Trucks, fork lifts, cranes
- Security systems
- Credit card verifications, POS, ATM system
- Facility management
- Electricity networks (Smart Grid, AMR, etc)
- Traffic Management System

**Customer Applications**
- Smart Grid
- Traffic Management
- Distribution Automation
- Flood Forecasting

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**Viola M2M Solution™**
WIRELESS SOLUTION

Four-Faith focusing on cellular modem, cellular IP modem(DTU), cellular router, zigbee modem, zigbee router, RTU, 4G LTE Router etc and have launched many products as well as solutions cover multiple wireless cellular network worldwide, such as UMTS/ WCDMA/ HSUPA/ HSDPA/ HSPA+/ LTE 4G Router, TD-SCDMA, CDMA2000 1X EVDO, CDMA2000 1X, EDGE, GPRS and GSM.

2.5G/ 3G IP Modem(DTU)
- 1mA ultra-low power consumption
- Wide temperature range

3G/ 4G Industrial Router
- High Speed Router support WiFi, VPN, OPENVPN, RSSI and Load Balance

Industrial 2.5/ 3G RTU
- With RTU and Wireless DTU Function

Process Automation

User Alert Automation

IP Modem

GSM Modem

RS232

TCP/IP

Data Acquisition

Data

Sensor

F2x14

Cellular Station

Service Center

Sensor

F2x64

Cellular Station

Service Center

Sensor

F2x14

Cellular Station

Service Center

TCP/IP

Video Surveillance Station

TCP/IP

TCP/IP

3G Router + GPS Clock Sync

3G Router + GPS Lock Location

3G Router

IP Camera
BIOMETRICS

Access Control & Time Management Solution

System and solution:
1. Time Attendance System
2. Door Access Control Security System
3. Meal Application System
4. People Count System
5. Intelligent Tailgate System
6. Visitor Management System
7. Guard Tour

Features:
1. Client Server Architecture
2. Real Time Application
3. Push Technology
4. Live and Fake Fingerprint Detection Technology
5. Fingerprint Algorithm
6. Automatic Finger Scan
7. Patented Search Algorithm
8. Registration and Authentication Levels set by User
9. Transaction Method set by User
10. Templates Stored in Terminal Memory and/or on the Server
11. Optical Sensor (Patented)
12. Attractive Design

PATENTED LIVE & FAKE FINGER Detection Technology

Typical Fake Fingerprints
- Silicon
- Rubber
- Film
- Paper
- Gelatin

Electrostatic Capacity
Optical Characteristics
VIRDI Algorithm
White LED
MOX Building Intelligence designs and manufactures an ever expanding range of intelligent home and building automation products. When designing new products, the MOX Building Intelligence research and development team looks beyond current needs and desires and seeks to develop products that will suit the modern home for years to come. MOX Building Intelligence has established itself as a leader in the intelligent home and building products market. With a total solution focus, product developments will continue to expand the possibilities available to the home owner or commercial tenant. Future home automation solutions will continue to inspire property developers to include the intelligent products available from MOX Building Intelligence.

Living Technology

Australian designer and manufacturer of an ever expanding range of intelligent home and building automation products.
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