MIMOS Supervisory Control and Data Acquisition (Mi-SCADA)

MIMOS Supervisory Control and Data Acquisition (Mi-SCADA) is a control system used to monitor and control a plant or equipment in industries such as energy, water and waste control, oil and gas refining, transportation and telecommunications. Mi-SCADA provides end-to-end authentication and encryption to protect the SCADA link from unauthorised access and control, eavesdropping and malicious attacks.

Overview

MIMOS Mi-SCADA is a bump-in-the-wire device, which allows easy and seamless integration into an existing system to enable an ultimate security protection over the SCADA network. With the powerful SHA-256/384, AES-128/256 and the proprietary Mi-CRYPT-128/256, together with the light-weight cryptography tool suites i.e. PRESENT and PHOTON, Mi-SCADA can be configured to meet the different security strength and throughput performance requirements of the target system.

Features

Mi-SCADA comprises the following features:

- **Comprehensive Security Suites**

  Encryption   : AES-128/256
                       Mi-CRYPT-128/256
                       PRESENT
  Hash   : SHA-256/384
                       PHOTON
  Key Exchange : ECDH P-384
  Digital Signature : ECDSA P-384

- **Supports Multiple SCADA Protocols**

  Able to support IEC-101 (Serial) and IEC-104 (Ethernet) industrial standard SCADA protocols.

- **User Configurable**

  Allows user configuration to meet different system requirements.

Technology Benefits

The main impacts of Mi-SCADA are:

- **Bump-in-the-Wire**

  Allows seamless integration into existing system.

- **Device-Based Authentication**

  Validates user's right to access to the Mi-SCADA system.

- **End-to-End Encryption**

  Prevents eavesdropping and ensure confidentiality.

- **Strong Assurance of Authenticity**

  Avoids intentional, unauthorised modification of the data.

- **Proprietary Encryption Algorithm**

  Enables extra layer of security implying "security through obscurity".

Technology Summary

Mi-SCADA

The ultimate security add-on device, which is easy to integrate into any existing SCADA infrastructure.
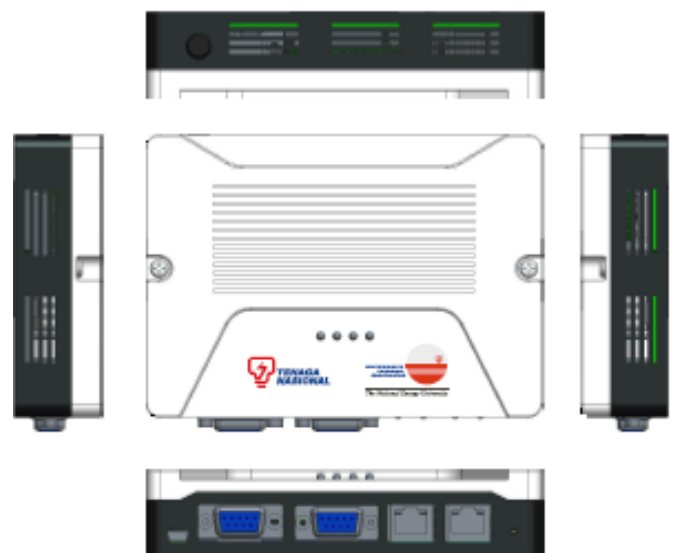
Industries: Energy, Water & Waste Control, Oil & Gas, Transportation, Telecommunications

Features
- Comprehensive security suites
- Supports multiple SCADA protocols
- User configurable

Technology Benefits
- Bump-in-the-wire
- Device-based authentication
- End-to-end encryption
- Strong assurance of authenticity
- Proprietary encryption algorithm

MIMOS Mi-SCADA device

Typical use cases

mimossolutions@mimos.my | www.mimos.my

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