



# Kuala Lumpur International Airport



## Customer

Malaysian Airports Holdings Berhad (MAHB)

## Country

Malaysia

## Industry

Airport Automation

## System Integrator

SysWin Controls Sdn Bhd

## IGSS Application

- IGSS version 7.0
- 50,000 Objects License
- Multi User Dualized
- 2 Servers, 10 operator stations
- Uses the airport fiber optic infrastructure to connect the server to the PLCs and the Operator Stations
- 100% Server Redundancy. 200% redundancy on database
- Over 50 units of Omron CJ1 PLCs
- IGSS is connected to FIDS and MIS via custom-written VB code residing in IGSS and the SQL Servers

## Data

### Number of passenger gates

52

### Capacity per year

35 million passengers

1.2 million tonnes of cargo

The Kuala Lumpur International Airport (KLIA) Apron Services Management System (ASMS) was conceived to provide a unified system for all major users of the airport passenger gates

KLIA is Malaysia's main international airport and one of Southeast Asia's major aviation hubs. It is situated in the Sepang district of Selangor, approximately 50 kilometres from the capital city of Kuala Lumpur.

The airport is owned and operated by Malaysia Airports (MAHB). KLIA is ranked amongst the largest and busiest international airports in Asia.

KLIA ASMS monitors the availability, operations, and usage of the apron equipment located at each of the 52 passenger gates at KLIA.

### The Challenge

#### Integration between several systems

To integrate the IGSS SCADA system to the Flight Information and Display System (FIDS) and the airport Management Information System (MIS).

### The Solution

#### One system for all users

The KLIA Apron Services Management System (ASMS) was conceived by Malaysian Airport Technologies Sdn Bhd, a subsidiary of MAHB, to provide a unified system for all major users of the airport passenger gates. These include MAHB, the airlines, aircraft ground crew, maintenance and engineering personnel, and several airport administrative departments.

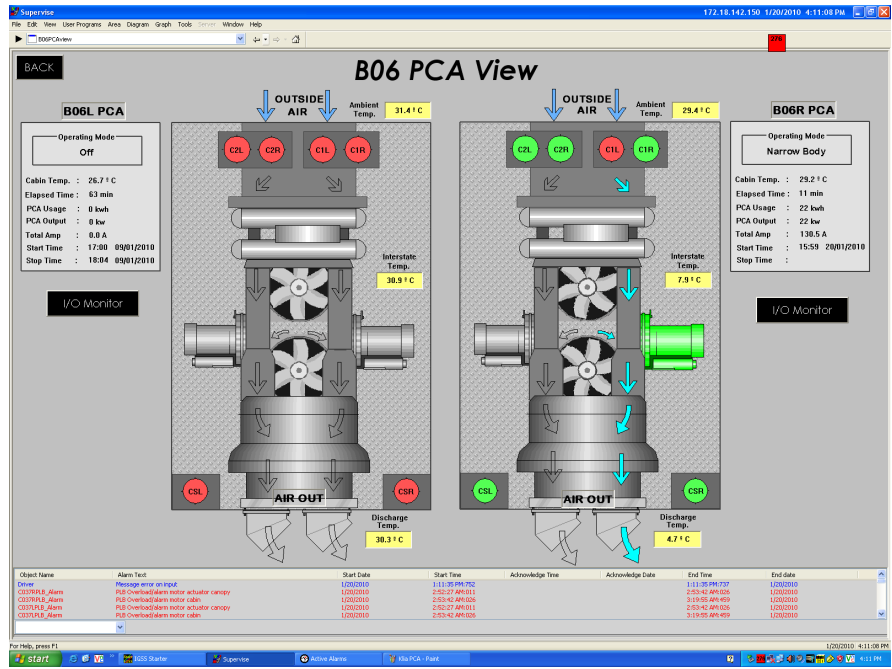
KLIA ASMS was entirely designed and put in place by a multi-party team lead by SysWin Controls Sdn Bhd, one of 7-Technologies' IGSS System Integrator partners in Malaysia that specializes in airport automation systems.

# INDUSTRIAL AUTOMATION

## Interactive Graphical SCADA System

# CUSTOMER CASE

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The ASMS system comprises 3 major components. They are:

- The IGSS SCADA system connected to a network of over 50 units of Omron CJ1 PLCs.
- The Interface Module between IGSS and the airport Flight Information and Display System (FIDS).
- The Data and Report Distribution Module between IGSS and the airport's SAP-based Management Information System (MIS).

### The Result

#### Unified information

The various user groups now have a unified fully-automated PC-based interface to the apron services. Prior to this project, all equipment usage was monitored and logged manually with users reporting from each gate in the airport complex.

### Other Advantages

#### Smooth reporting

Accurate, instantaneous, round-the-clock reporting and data availability.