

Integrated Facility & Security Control Systems (IFSS) use multi-disciplinary technology, incorporating audio, video and control systems. IFSS are typically installed for large installations where there is centralized control of the facilities in a secured location. Such installations may take the form of multi-building sites, industrial parks and even military installations.

Using a combination of state-of-the-art programmable logic controllers, remote terminal units and protection relays, CSE has the capability to deliver integrated systems that meet the most stringent operational parameters. Services that require 24-hour monitoring include power substations, lifts/elevator systems, environmental systems, as well as personnel access systems that use video cameras, motion detectors and intrusion devices in combination with card access systems to ensure uncompromised security.



This advanced technology equipment and high speed devices are supported by a reliable and secure network with firewall protection. In addition, authorised users can access real-time data and information round-the-clock through the secure internet web server connected to the IFSS.



Facilities Monitoring Display

IFSS typically has a control hierarchy architecture consisting of five control levels:

LEVEL	ELEMENTS
0	consisting of final elements such as sensors, transmitters, control valves, etc. connected to the process equipment or installation.
1	consisting of controllers or programmable logic controllers (PLC) that carry out unit level operations.
2	consisting of a supervisory, control and data acquisition (SCADA) system containing all the hardware and software by which the entire facility can be centrally monitored and controlled.
3	consisting of a plant/building management information system. This integrates information of the lower levels and enables management decisions.
4	consisting of a corporate information system which obtains data from all facilities and integrates the operations of the entire corporation.

Utilizing our broad experience in control systems applications, plant information systems, networking solutions, workflow and information technology, we are well equipped to implement all levels of the control hierarchy within the IFSS.

