



UltraControl / UltraBSI

Airport Systems Management

Features

- Reduces utilities and building systems outage times
- Improves response to incidents by electronic reporting of faults
- Reduces space requirement in control room by elimination of multiple systems
- Single user interface reduces staff training requirements
- Improved monitoring of energy use
- Better management of service agreements through enhanced reporting

UltraControl provides a range of services from initial feasibility studies through to delivering complete operational SCADA solutions using commercial off-the-shelf products and open standards.

UltraBSI (Building Systems Integration) is an application of UltraControl which in particular manages building systems within the airport terminal.

UltraBSI is currently deployed at London Heathrow Terminal 5 and Dublin Terminal 2 monitoring key building infrastructure assets.

UltraControl and UltraBSI can be delivered with other airport operational systems as part of Ultra's integrated airport approach.

Key Features

- Graphical overview of system status for building (passenger) services and supporting utilities
- Integration of the control and monitoring of key systems and services onto a common platform
- Consolidated alarm management leading to better prioritisation of alarms and lower staff workload
- Remote messaging to maintenance personnel on predefined status alarms
- Automated consequential actions and decision support capability for improved response to incidents
- Open standards enabling integration to other business systems where required

UltraControl / UltraBSI

The UltraControl team are experienced in the design, development, installation, commissioning and integration of tailored solutions for control and monitoring of equipment in an airport environment.



Typical applications would be the monitoring of electricity distribution, water treatment plants and road infrastructure.

The UltraBSI system uses the capabilities of UltraControl to provide airport terminal operations staff with the facilities they need to manage the terminal buildings. The principle is to avoid multiple systems, each with its own user interface and training requirements.



The system architecture is based on the use of a commercial off-the shelf (COTS) SCADA product, configured and extended to provide the required functionality. Use of COTS reduces cost of implementation and ongoing maintenance, and minimises risk.

UltraBSI allows the control and monitoring of various plant equipment to be performed in a co-ordinated manner from a common, intuitive user interface, with consolidated alarm management and enhanced help or decision support screens associated with alarms. Typical systems to be managed include heating and ventilation, lifts, escalators, airbridges, access control, CCTV, baggage systems, fire alarms and energy metering.

Interaction between plant systems can be performed, so that, for example, appropriate CCTV images can automatically be displayed if an escalator emergency stop is operated. UltraBSI can form the primary interface to the CCTV system for control room staff, managing the video wall in the control room to display CCTV images or mimic diagrams relating to the monitoring of plant.

UltraBSI can also act as a gateway for communications between plant and IT systems, for example automatically sending fault reports from lifts to a Maintenance Management System, or managing the flow of data to an energy management system.



Ultra Electronics Airport Systems
The Oaks, Crewe Road,
Wythenshawe, Manchester,
M23 9SS,
UK

Ultra Electronics Airport Systems, Inc.
Suite 320, 11020 Ambassador Drive,
Kansas City,
MO 64153,
USA

Ultra Electronics Airport Systems
Units 2305-2307, 23F Tower B
Gemdale Plaza (No. 9 Building),
No. 91 Jianguo Road, Chaoyang
District, Beijing 100022,
P. R. China

Ultra Electronics TIsys
BP 9027,
74990 Annecy Cedex 09,
France