

CASESTUDY

# International Airports

## Dublin Airport – Terminal 1 & 2 | Ireland



Dublin International Airport is Ireland’s busiest airport and is also amongst the ten busiest airports in Europe.

01 Dublin Airport  
Terminal 1 & 2 | Ireland

### Projekt Summary

Dublin Airport manages an average of 60,000 passengers per day, rising to 80,000 during the peak season, and more than 600 aircrafts movements every day. Operated by the Dublin Airport Authority.

UnitronUC32 OPC server provides the new terminal with a fully integrated solution. The OPC server allows integration between the ABB Cylon® BEMS and other systems such as lifts, luggage conveyors, lighting, security and fire security. All systems can be viewed and monitored from a single PC using the OPC interface.

### Project Summary

Applications:	Control of air handling units, cooling and heating systems and monitoring of the level of carbon dioxide via CO <sub>2</sub> sensors
Number/Type of Building:	75,000 m <sup>2</sup>

ABB Cylon® Smart Building Solutions’ comprehensive Building Automation and Controls portfolio integrates key building systems such as energy, HVAC, HVAC drives, lighting, fire safety, security, and workplace management. Serving industries including commercial buildings, workplaces, hospitals, schools, campuses, stadiums, enterprises, and more. Our holistic offering creates value for our customers and provides connected

experiences to increase productivity, optimize processes, and ultimately provide higher tenant satisfaction. For more information visit [new.abb.com/buildings](http://new.abb.com/buildings)

ABB’s Electrification Business Area is a global leader in electrical products and solutions, operating in more than 100 countries, with over 200 manufacturing

sites. Our 50,000+ employees are dedicated to delivering safe, smart and sustainable electrification. With ABB Ability™ enabled digital solutions at its core, our portfolio protects, connects and optimizes the flow of electrical energy for smarter electricity distribution for utilities, industry, buildings, infrastructure and mobility. For more information visit [go.abb/electrification](http://go.abb/electrification)

CASESTUDY

# International Airports

## Shannon Airport | Ireland



01

01 Shannon Airport  
Ireland

02 Shannon Airport  
Ireland

02

### Projekt Summary

Opened in 1945, operated by DAA (Dublin Airport Authority), located on the west coast of Ireland 24 kilometres north of Limerick city, 22 kilometres south of Ennis town and 90 kilometres south of Galway.

Over 1.6m passengers annually Shannon is the third busiest airport in Ireland.

The solution includes the main terminal where the BMS controls heating, air handling, cooling, lighting, and monitoring of refrigeration units for food safety. The BMS is also used to control the remote water treatment plant.

### Project Summary

Applications:	In the main terminal, the BMS controls heating, air handling, cooling, lighting, and monitoring of refrigeration units for food safety
Number of Points:	1,500 points

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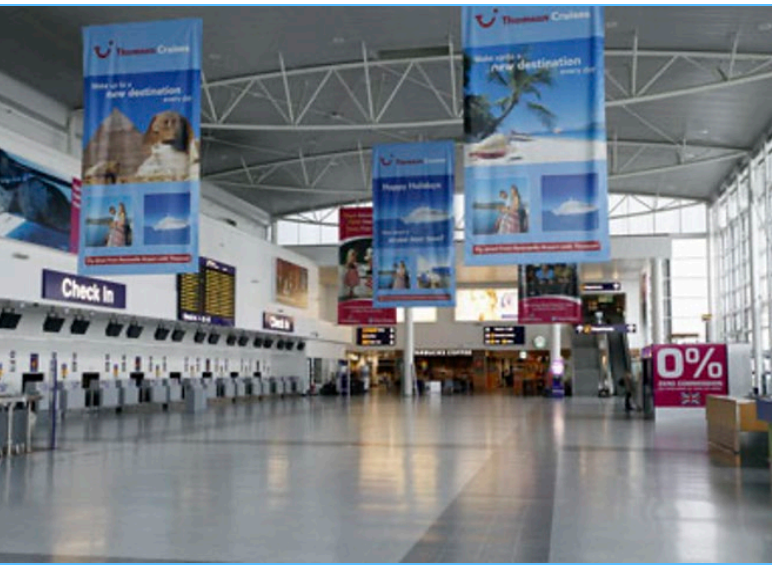
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CASESTUDY

# International Airports

## Newcastle Airport | UK



01



02

- 01 Newcastle Airport UK
- 02 Newcastle Airport UK

### Projekt Summary

International airport with over 5 million passengers a year.

Installed as a Phased project with no disruption of operations ABB Cylon® offers enhanced integration of systems and protects investment in product allowing forward compatibility with new technologies.

### Project Summary

Applications:	Replacement of obsolete Satchwell equipment. ABB Cylon® offers enhanced integration of systems
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CASESTUDY

# International Airports

## Changi Airport | Singapore



International airport with over 45 million passengers annually.

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01 Changi Airport  
Singapore

### Projekt Summary

Changi Airport serves more than 100 airlines operating 6,100 weekly flights connecting Singapore to over 220 cities in about 60 countries and territories worldwide.

The ABB Cylon® BMS is installed in both Terminal 1 and Terminal 2 providing control of critical HVAC functions. It is integrated with other Building Automation Systems and a Fire Management System via an OPC Server interface.

### Project Summary

Applications:	Control of critical HVAC functions
Number of Points:	8,000 points
Number/Type of Building:	75,000 m <sup>2</sup>

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