



## Case Study

### Airports

## LHR T1 Arrivals and Departures Upgrade and US Carrier Screening

#### Client:

BAA - Heathrow Airport Ltd

#### Critical Success Factors:

- Stakeholder engagement and approval
- Delivered on time and to programme without operational disruption
- Delivered in budget

#### Overview

Following the opening of T5 at London's Heathrow a once in a lifetime opportunity was realised to upgrade the Central Terminal Area, replacing the oldest terminal, T2, with a new state-of-art terminal to be known as Heathrow East or T2A.

In order to facilitate these works the airline community operating from T2 would need to be relocated to enable the old terminal to be demolished.

T1 was planned to become the Heathrow base for the majority of Star Alliance airlines. The Arrivals and Departures and US Carrier Screening projects included the works to prepare T1 for its new users and comprised the following baggage works.

Redesign of the departures concourse:

- Removal of several check-in islands
- Installation of a brand new north-face check-in facility for use by United Airlines
- Removal of the existing east-face check-in facility
- Installation of a brand new east-face check-in facility for use by BMI
- Refurbishment of the south-face check-in facility
- Remaining check-in islands upgraded/modified to optimise layout
- Inclusion of new collector lines and improved routing options

Arrivals system upgrades including:

- Removal of two existing carousels and replace with one new linear motor driven unit
- Arrivals docks upgraded

US Carrier Screening installation:

- Replacement of existing level 3 screening machine in the transfer hall and process upgrade to DfT and TSA requirements
- Installation of a second TSA process level 3 screening machine in the transfer hall

#### Challenge

To deliver the works in readiness for the airline moves programme whilst ensuring the current occupiers, predominantly British Airways, experienced no operational disruption.

Integration of new HBS screening technology.

Development and implementation of new US Carrier Screening processes.

#### Solution

Use of BAA compliant component equipment, conveyors, check-in desks, etc.

Control system designed to meet the requirements of the BAA future control systems strategy using Siemens S7 architecture and hardware.

#### Benefits

New facilities designed to meet the needs of the new airlines users.

US Carrier Screening functionality for the US airline users.

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