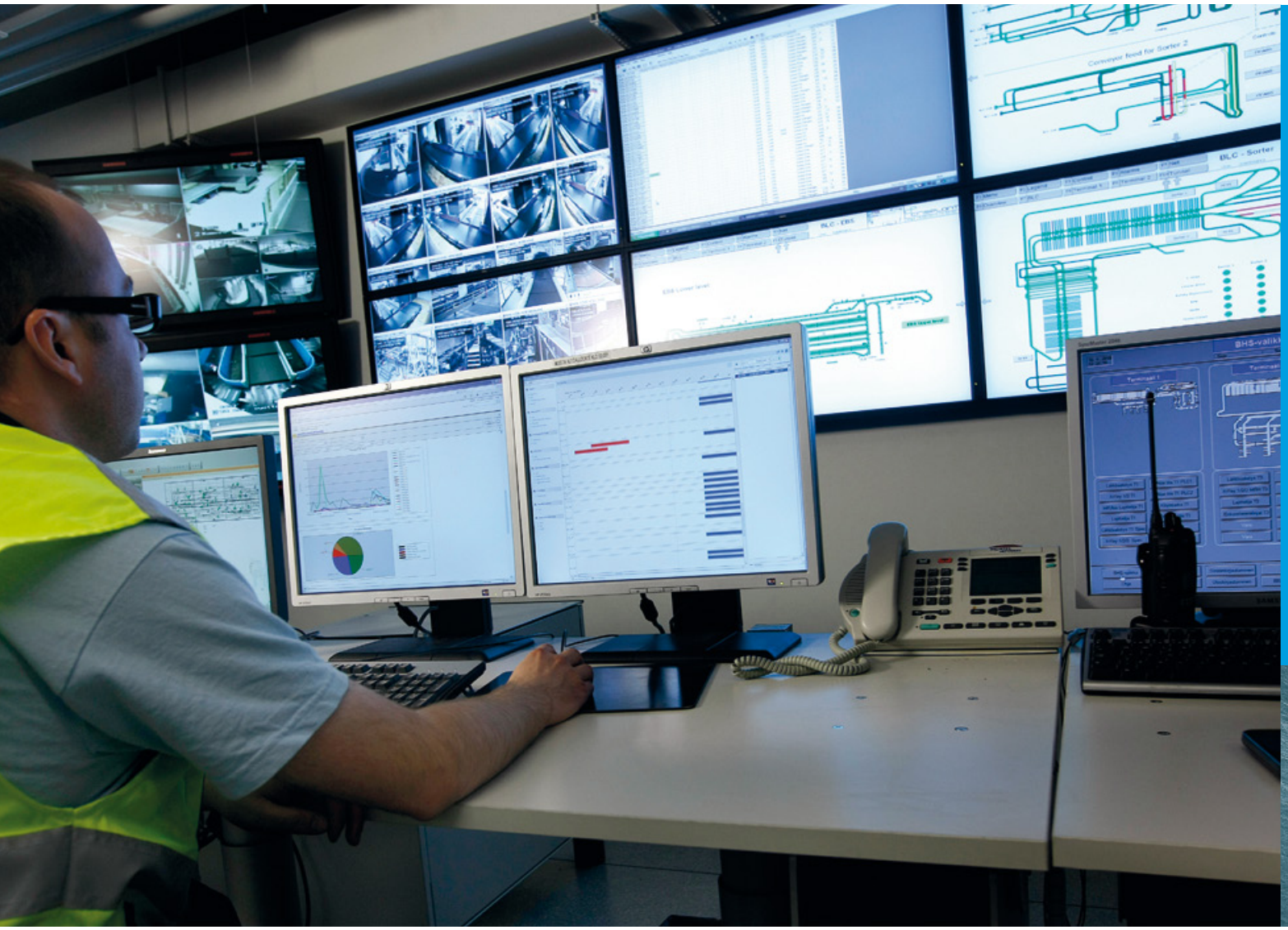
BEUMERGROUP



AIRPORT SOFTWARE SUITE
MADE DIFFERENT

AIRPORT

AIRPORT SOFTWARE SUITE
FOR BAGGAGE HANDLING SYSTEMS

SYSTEM

Sorter control

CrisBag® control

Conveyer control

autover® control

BEUMER Group combines some of the industry's most advanced Baggage Handling System High Level Control aces to introduce new levels of ease and efficiency to the baggage handling process.

The foundation of the Airport Software Suite is a set of proven, standard controls modules.

Each module implements advanced equipment control assuring optimum availability and reliability.

The Airport Software Suite is based on fully redundant IT architecture. The entire solution is comprehensively tested on emulators prior to installation on-site.

HBS

The Airport Software Suite ensures that all bags are screened according to the appropriate international standards governing airport security.

Simulation

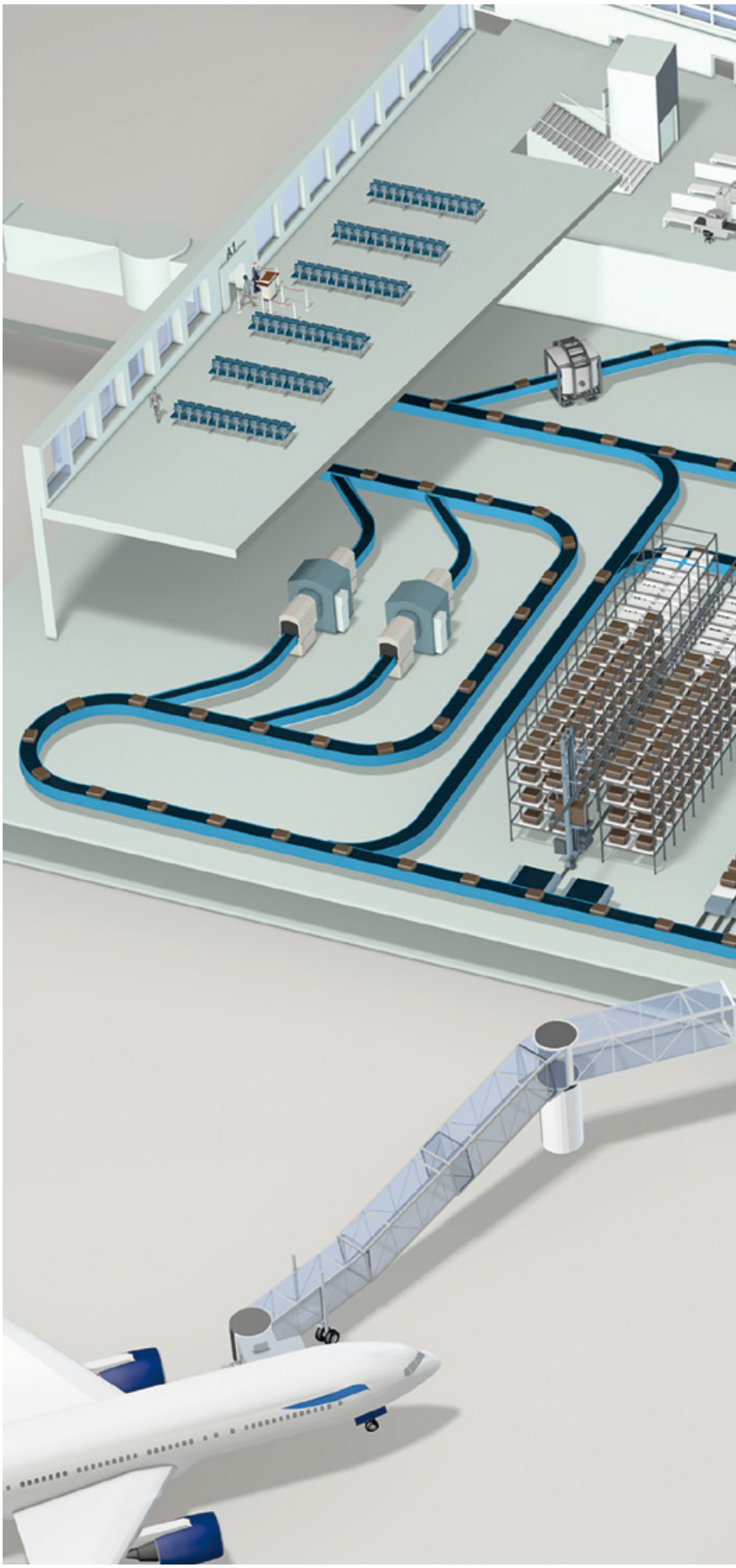
The simulator enables trainees to experience live situations and to learn through different scenarios, such as future flight-schedule changes. It is also a valuable tool in error case investigations.

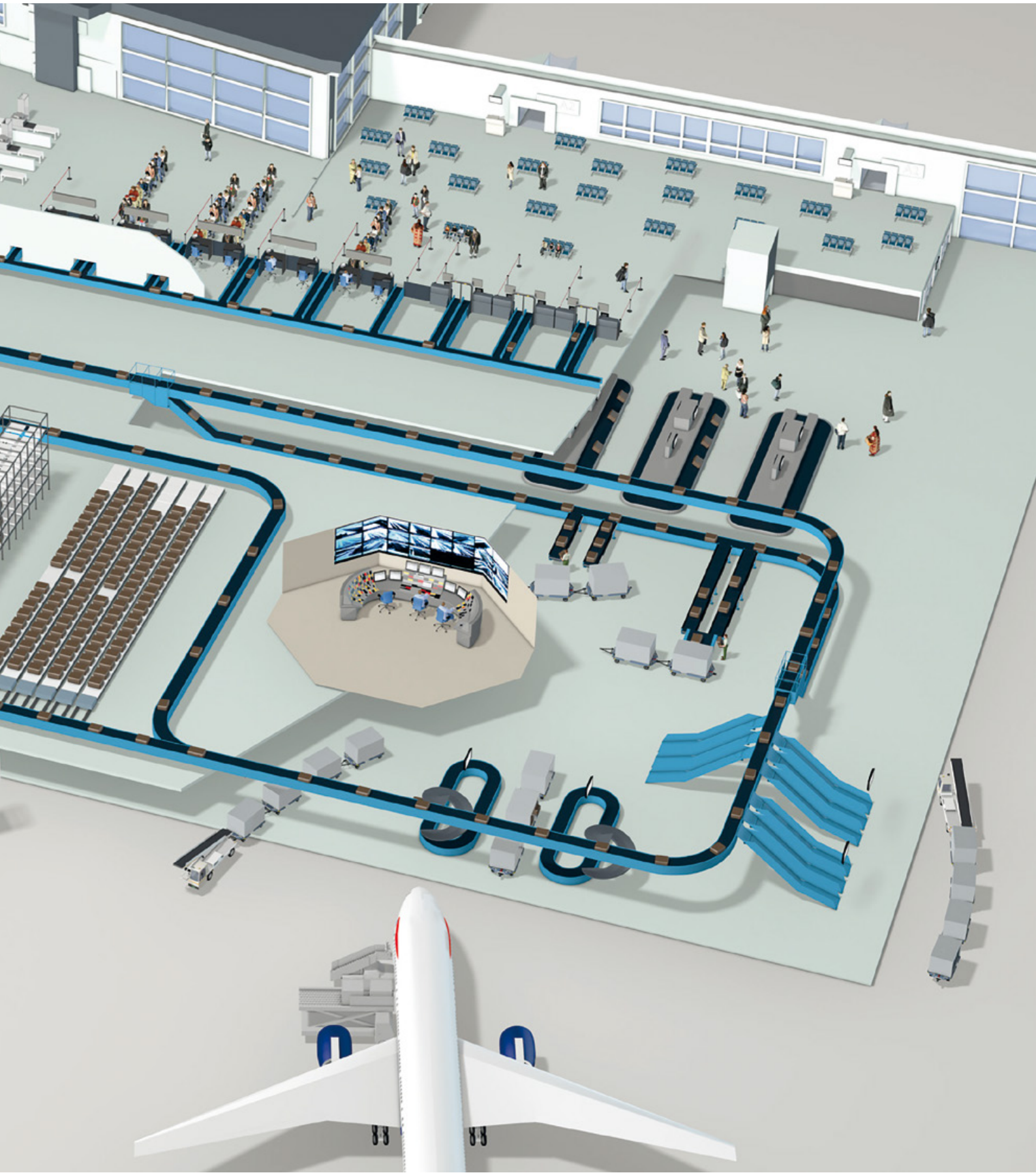
VCS/OCR

RFID

The Airport Software Suite interfaces to a range of data capture systems which range from traditional scanner systems to the latest RFID, optical character recognition (OCR) and integrated video coding system (VCS) solutions.

As system integrators, we have the knowledge to ensure an optimum setup in each airport to meet the target throughput and read rate requirements.





MODULAR, EFFECTIVE AND FIELD-PROVEN

FLOW

Departure planning

Arrival planning

Real-time flight information is displayed in a clear graphical overview to enable operators to assign destinations based on real-time flight information, allocate carousels using arrival baggage forecasts and co-ordinate departure baggage with Early Baggage Storage (EBS).

BIWIS

The Baggage Image Weight Identification System (BIWIS) module eliminates the need for transfer baggage to be claimed and rechecked when passengers approach a U.S. Customs and Border Protection (CBP) primary inspection line.

Check in MES

The Airport Software Suite interfaces to a range of commercial off-the-shelf (COTS) check-in kiosks and self-bag drop solutions.

Destination resolving

Once a bag is checked-in, the Airport Software Suite resolves the correct chute destination based on BSM information, flight allocation, onward destination, priority and travel class.

Manual handling

The integrated Video Coding System (VCS) ensures prompt resolution of the destination for baggage handled via the Manual Encoding Station (MES). The VCS also provides flexibility by freeing operators from the need to be physically present at the MES at all times.

Routing

The Airport Software Suite automatically plans the optimum route for each bag to achieve the fastest possible transfer speed.

EBS

From simple shelf solutions to advanced and automated storage systems, the Airport Software Suite handles the storage of bags based on the flight number and enables any item of baggage to be retrieved individually on demand.

MANAGEMENT

Management information

The Management Information System (MIS) includes configurable dashboards which provide real-time and historical overviews of system performance in addition to tools for optimisation and planning.

Data Analytics

A number of cloud based digital services provides real time and historical insight on maintenance, operational and management in addition to predictive maintenance and operational decision support both based on artificial intelligence (AI).

BIDS

The Baggage Information Display System (BIDS) provides live information on the previous, current and upcoming allocations for each operator in the make-up area.

Track'n'trace

The Airport Software Suite complies with IATA Resolution 753. It seamlessly integrates the controls for conveyors, tilt-tray sorters, tote-based systems and independent carrier systems to provide 100% tracking and traceability at every stage of the baggage handling process.

BRS

The Baggage Reconciliation System (BRS) combines baggage management, tracking and automatic reconciliation with full compliance to ICAO Annex 17.

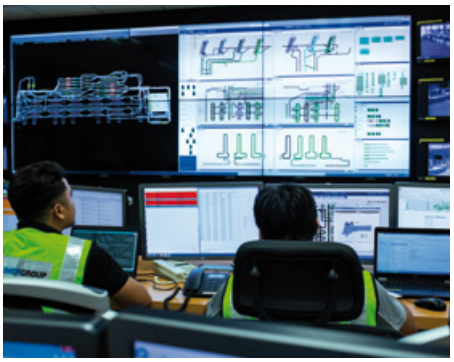
SCADA

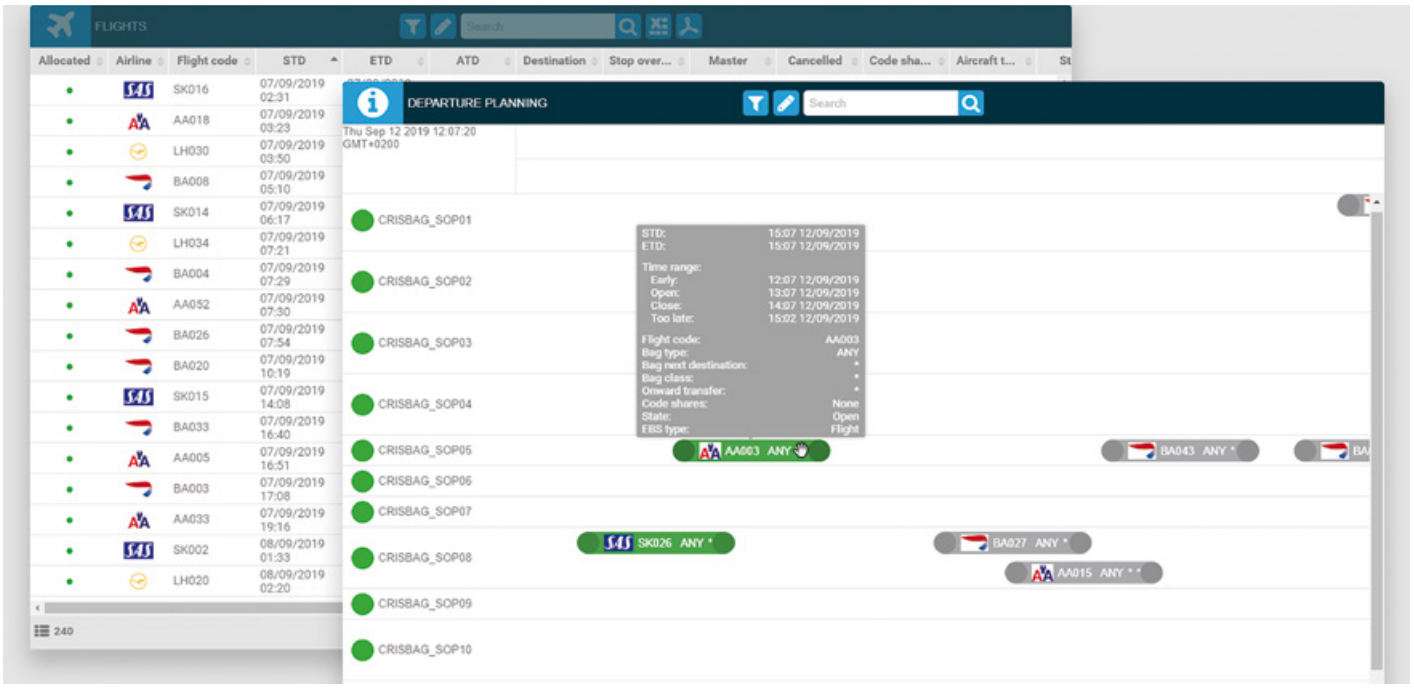
The combination of SCADA with a comprehensive alarm system and smart CCTV provides the foundation for effective root-cause analysis and management. The graphical display provides a multi-level visualisation of the complete BHS in addition to the status for each section. This allows operators to zoom into specific areas using live images from the CCTV.

CCTV

The integration of the alarm system with the CCTV enables videos to be captured automatically to provide visual evidence of events.

Maintenance





EASY AND INTUITIVE USER INTERFACE

Each user can personalise their desktop by selecting which widgets to use in their individual profile. This ensures faster and more intuitive access to all baggage handling system data without the need to log-in and -out of different systems. Whilst users have the flexibility to include their own choice of widgets, supervisors can lock must-have widgets to the desktops of all team members.

Ensuring that each bag is safely delivered to the right destination demands high levels of visibility, control and traceability. This includes planning and management as well as statistical analysis of baggage flow and Key Performance Indicators (KPIs). It also requires advanced simulation, training and optimisation tools to deliver continual improvement in employee productivity and process efficiency.

WEB-BASED PLATFORM

The intuitive user interface graphically integrates all of the software modules including those for peripheral equipment and subsystems. This gives operators a complete set of widget-based data on a virtual desktop, as well as secure access for operating and controlling the entire baggage handling system. The web-based user interface also extends access to the system from a range of platforms, including mobile devices.

MOBILE ACCESS

Using a web-based platform allows the Airport Software Suite to be accessed with the same user interface from a wide range of physical devices. These can include a workstation or video-wall in a central control room, as well as mobile platforms such as RF devices, tablets and smart phones.

The types of devices with which operators, managers and maintenance teams can access the Airport Software Suite can be customised for each airport.

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