SIAMOS
Put your airport ahead through innovation
SIAMOS
The airports operations challenges …

- Cope with capacity bottlenecks
- Satisfy airline demands
- Improve cooperation for a rising number of stakeholders
- Reduce operating costs
- Enhance passengers’ satisfaction
- Improve productivity and efficiency
- Improve forecast of arrival and departure times
- Increase punctuality
- Enable better decisions
- Manage increasing air traffic

... and, additionally, EuroControl's

- Collaborative decision making
- CDM targets
To achieve better operation it is recommended to:

- Establish a common database
- Normalise the common data
- Enable standardised communication
- Provide integrated applications
SIAMOS
Overview – Software solution family

SIAMOS AMS
Airport management system

SIAMOS APM
Airport performance management

SIAMOS FIDS
Flight information display system

SIAMOS TOP
Total operations planner

SIAMOS BMS
Baggage management system

SIAMOS APIP - Airport Process Integration Platform

Data warehouse / repository

Airport operational database

SIAMOS interfaces, e.g.:
- Enterprise resource planning
- SITA
- Authorities
- Air traffic control
- E-mail
- Billing
- Communication networks
- Sensors
- Airlines

Siemens partner applications, e.g.:
- AMAN = Arrivals Manager
- SMAN = Surface Manager
- TMAN = Turnaround Manager
- DMAN = Departure Manager
- CUTE/CUSS

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The basis - Required on all airports:

1. Resource management systems (SIAMOS RMS)
2. Seasonal flight plan management (SIAMOS SFM)
3. Operational flight plan management (SIAMOS OFM)
4. Billing system (SIAMOS BS)
SIAMOS APM
Airport performance management

- Key performance indicators (KPI) for capacity, demand, flow & queue
- Airport performance forecasting
- Air & land - process management
- Target deviation alerting
- Statistics & reporting

Implements also EuroControl Airport-CDM concept elements, i.e. Milestone approach, pre-departure sequencing, ...
Scenario:
- Capacity drop e.g. due to weather
- Capacity does not match the departure demand
- A significant departure queue is the result

Today's situation:
- No impact-prediction available over several hours period
- Stakeholders find themselves in reactive mode
- Delays all flights uniformly
- Airline constraints are not adequately considered

Pre-departure sequencing:
- Three-hour forecast transparent to all stakeholders
- Airlines optimise their departure sequence
- Cost savings due to optimal resource planning
- Passengers enjoy longer in pre-departure and shops

Increase punctuality of hi-value-flights
Decrease punctuality of low-value-flights
SIAMOS FIDS (SIFIDS)
The five major features

- Flight information display system
- Passenger guidance system
- Advertising platform
- Emergency incident information display
- WEB-FIDS - Airports operations stand-by system
SIAMOS FIDS (SIFIDS)
The customers' benefits

Guide passengers in time
- Advertising, information (news) and entertainment as dynamic display media in addition to the classic flight information display system
- Combination of flight information and advertising
- Powerful system for displaying flight information to passengers as well as to operational personnel
- Easy migration from legacy systems to SIFIDS
- Flexible deployment (partially / terminal)
- Start small, grow large - one solution for every size
- Requires minimal training and support
- Provides a high degree of scalability and reliability

Increase of non-aviation business

Flexible & scalable system

Reduced TCO for FIDS IT
SIAMOS BMS
Baggage management solutions

- Baggage base IT (Siemens IT platform for BHS)
- Baggage IT retrofit programs
  - IT retrofit for Siemens BHS HW and for other vendors
  - With PLC control and without
- Baggage reconciliation systems
- Baggage tracking and tracing solutions for airports and airlines
SIAMOS APOC
Airport operations control centre

- Improve the decision making process significantly with a centralised airport operations control centre
- Brings people operating an airport together in a single room
- Integrating airport units like traffic centre, ops. Planning, terminal control, ...
- Video wall for common situation awareness
- Integrated working positions for airport, airlines, ATC, ground handling, security, network & authorities
Solutions to operational challenges

Customers' benefits:
- More efficient resource management
- Increased aviation revenues
- Better involvement of airlines
- Reduced taxi-out times
- Reduced unnecessary fuel burn
- Reduced passenger queue times
- Reduced passenger crowds
- Increased dwell time in retail areas
SIAMOS
The Siemens offer

- Scalable, modular software solution
- Process analysis, conception, planning and consulting
- General contractor responsibility
- Customising and realisation
- Systems integration, test and commissioning
- IT and operations services, software support and update service, hotline
- Start-up support and training

Put your airport ahead by innovation:
SIAMOS

Software for airports
Siemens airport management & operations suite

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