



## Company Profile

### Small enough to listen...

Tern Systems specializes in the development of systems for Air Traffic Management (ATM). These include surveillance and flight data processing, aeronautical message handling, as well as ATC training solutions.



Tern Systems is an ATM solution provider and a reliable partner for turn-key solutions serving airports and ATC centres of all sizes. The company is cross-functional with skills in all areas needed for successful implementation of ATS projects.

#### History of Tern Systems

Tern Systems origins began in the late 1970's with a cooperative agreement between the Icelandic Civil Aviation Administration and the University of Iceland to develop an ATS message distribution system. In 1988 the venture deployed a radar data processing system. In 1997 this fruitful joint-venture was formally organized into Tern Systems Inc., with the mission to continue the successful growth of ATC systems development.

Tern Systems engineering processes and deployment techniques have been continuously evolving to create a mature, stable, and reliable operational ATC product suite.

#### ATC Automation Systems

- Tern ATC System
- Advanced flight data processing
- Surveillance data processing (ADS-B, ADS-C, Radar)
- FPL2012 Converter

#### Aeronautical Messaging Systems

- AFTN/CIDIN Switches
- AMHS Switches
- AFTN/Flight Data Terminals

#### Simulators

- 3D Tower Simulator
- APP/APS Simulator
- ACC/ACS Simulator
- OCA Simulator
- VCSS (Voice Communication System Simulator)

#### Other systems

- Air Navigation Service Charge System
- Remote Equipment Monitoring and Controlling System (Opsview based)



## Tern Systems Inc.

### Part of Isavia Ltd.

Tern Systems has an inherent understanding of the practical issues surrounding the implementation of CNS/ATM solutions. We are specialists in a well-defined scale of operations which assures our customers of exceptional reliability with cost-effectiveness. Tern Systems solutions are developed in close cooperation with air traffic controllers resulting in efficient and user-friendly systems that satisfy the needs of customers not necessarily demanding the mainstream requirements.



The company consists of 35 ATC professionals with the support from a significant number of skilled employees of the Isavia Ltd, former Icelandic Civil Aviation Administration. We are headquartered in Iceland with international support from partners in over 20 countries.



As a subsidiary of Isavia, Tern Systems have access to experts in all areas of air traffic control. Isavia's expertise helps us develop and produce mission-critical software with the needs of controllers and operators in mind.

Our software is designed by a team of experts from both Tern and Isavia and then tested by a selected group of users, air traffic controllers and system operators. This method ensures the highest level of security and quality assurance.



#### ATC Automation Systems:

- Operational expertise provided by top level operational personnel with experience of all aspects of air traffic control and management.
- Technical expertise provided by leading technical experts in the field of ATC systems implementation.
- Installation expertise is provided by a veteran group of technicians with far-ranging experiences



# Customer Support

## Your satisfaction is our goal

The deployment of any CNS/ATM solution demands customer support for installation, training and operations. Our customer support is tied directly to our quality assurance program in a continuous cycle of improvement.

Tern Systems dedication to excellence includes customer support at every stage of a project, from conception through development and installation to operation of the system.

When an ATC system becomes operational, customers enjoy the continuous support of the highly qualified support personnel at Tern Systems.



The Tern Systems dedication to customer support is the basis for the success the company enjoys and the successful implementation of various ATC projects carried out by its personnel.

Tern Systems is a company flexible enough to be very responsive to customer needs and to have the resources required for a diversity of international market demands and to continue our contribution to the CNS/ATM community.

For over 20 years of successful installations and with satisfied customers around the world, our goal has always been the same. And we're sticking to it!



Tern Systems  
Your satisfaction is our goal

Tern Systems support personnel are involved in all developmental stages of the project and have:

- Knowledge of the operational conditions of the system at the customer premises, including system configuration, building layout, network infrastructure, etc.
- Detailed knowledge of the operational and technical workings of each system.
- Support personnel have usually participated in acceptance testing of systems, the creation of user manuals, and local system adaptation.
- Direct access to engineers responsible for design, implementation and installation of the system.
- Direct access to air traffic controllers at Isavia for resolution of operational or procedural problems.
- Support for CIDIN, AMHS and Email
- Continuous HW and SW monitoring



## Recent projects

... large enough to deliver



APP and 3D Tower Simulator in Casablanca, Morocco

In 2010, the Mohammed VI Civil Aviation International Academy, chose Tern Systems to design, customize and deliver a 3D tower simulation solution for the academy. The facility consists of a 180° curved screen simulator with 2 controllers and

3 pseudo-pilots and 4 3D training positions with 52" LCD monitors with 1 pseudo-pilot position each. As the project progressed, 4 approach controller positions were added to the project to simultaneously train the APP/APS and Tower controllers. The project was delivered in June 2011.

Surveillance and flight data processing system, Keflavik International Airport, Iceland

Tern recently finished the installation of the TAS system in Keflavik International Airport, Iceland. The system combines advanced surveillance and flight data processing with an easy to use

air traffic controller interface enabling both tactical and strategic control with powerful conflict detection and resolution capabilities.



TAS system for Sepinggan International Airport in Balikpapan, Indonesia

Sepinggan International Airport has announced the co-operation with Tern Systems to renew the current approach and tower ATM system in 2012. The system consists of 9 working positions in both APP/APS and tower as well as

voice communication and recording systems.

A few project milestones:

2012

- 2012 Flight Plan for Korea (KAC)
- TAS system for Sepinggan International Airport in Balikpapan, Indonesia
- Keflavik International Airport surveillance and flight data processing system
- RO-FDS Simulator for GANNET ATS Iceland.

2011

- APP and 3D Tower Simulator in Casablanca, Morocco

2010

- Tern System ATS Message Switch in Pristina Kosovo
- Integrated Situation Display System for Isavia, Iceland

2009...

- Hosea Kotako International airport in Namibia
- Jeju International, S-Korea, Surveillance and Flight Data Processing System