

THE AIR SUITE

Your entire training solution



ROSE Simulation

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We would like to present three products to you, that are designed to support ATC training in your organization.

They may be used

- ▶ in combination: one source, one standard, fully compatible
- ▶ as single applications: in addition to training products that you already have or as stand-alone solutions

AMOS, IRIS and ROSE cover the need for radar and tower simulation as well as voice communication.

Did you ever have the idea to combine tower and radar training?

Traffic can be handed from **ROSE** to **AMOS** and vice versa seamlessly.

You are welcome to dive into the possibilities of high-performant, but still easy to set-up and use software, that has been developed with the following objective in mind:

Covering your training ideas entirely ... and with ease.





AIRPORT MOVEMENT SIMULATOR

The 3D tower simulator **AMOS** is suitable for various fields of use:

- ▶ High-end 3D graphic & performance in a full-scale simulator
- ▶ As valuable enrichment for basic training: It runs on any COTS computer

The simulator covers it all: realistic aircraft and vehicle movement on ground, in the air and during take-off and landing. This includes a whole set of procedures for VFR and IFR traffic which allow a realistic simulation of typical and demanding tower operations.

Aircraft types

AMOS is delivered with a variety of aircraft types and paintings, including helicopters, drones, gliders and military aircraft. Push-back and tow procedures are just as much a matter of course as any other complex movement on an aerodrome.

Weather

The integrated weather engine provides weather phenomenon in a way that makes you feel like freezing, getting wet or been blown away by the strong winds.

A unique lighting model generates night, sunrise or sunset scenes in a lifelike appearance.

Data preparation

The built-in editors offer a flexible and fast design of airport and exercises. Runways, taxiways, buildings and lighting can be added and altered in a short time. Exercise designers will appreciate the innovative and easy approach to prepare traffic along their training ideas.

The intuitive piloting interface allows a flexible handling of all kinds of traffic.

Launch **AMOS**, connect a few stations and start discovering tower simulation at its finest!





INDEPENDENT RADIO & INTERCOM SYSTEM

IRIS is an independent voice communication system running on VoIP technology which can be used in numerous contexts and environments.

This smart solution does not require expensive hardware and works with any common USB headset or microphone.

In an advanced setup IRIS provides interfaces to professional hardware manufacturers such as Imtradex, PEITEL or Plantronics ATC/Aviation Line. Multiple audio devices can be used on one IRIS station simultaneously. These devices are then individually configured as input/output for radio or telephone (or both).

Layout Editor

The configuration of the layout is completely customizable. A layout editor is an integral part of the IRIS system and therefore available to all users of the application. The creation of a customer-specific layout does no longer require development work by the manufacturer. Using the built-in editing functions the user now has all the possibilities on hand to either develop or rebuild any VoiceCom system layout.

Radio Com Options

Each IRIS station has the ability to separately define and lock hundreds of different frequencies (either **TX: Transmit & Receive** or **RX: Receive**) and communicate to all on those frequencies via push-to-talk.

Telephone

Message queue, hold line feature and different call priorities are just a few examples demonstrating IRIS' powerful telephone features.

Each working position may take on several roles and aliases at the same time. Depending on the scenario this multi-role concept enables a single user to act in different functions from one position, e.g. as supervisor, fire brigade or airport authority. The flexible setup allows the definition of hundreds of different telephone roles.

Urgent information can be transmitted either as **Priority Call**, which is specifically highlighted at the target's position, or as **Direct Call** for an immediate connection. In addition, IRIS provides **Shoutbox** functionality.





RADAR OPERATION SIMULATOR & EDITOR

To describe the radar simulator **ROSE** in a few words: Customizable, intuitive, high performant, scalable.

One of the main thoughts behind the development was to create a simulator that could be used flexibly: The quick change of a traffic situation, simple to use airspace modification and of course the independence of large and space consuming hardware were only a few action items.

ROSE offers the possibility to generate or import new traffic scenarios and airspace data within a short time.

Fields of use

The simulator is already used for example

- ▶ in complex networked simulations
- ▶ as a procedure planning tool
- ▶ as a basic radar skills trainer
- ▶ as a demonstration tool
- ▶ for classroom teaching
- ▶ as a training platform in CBT studios

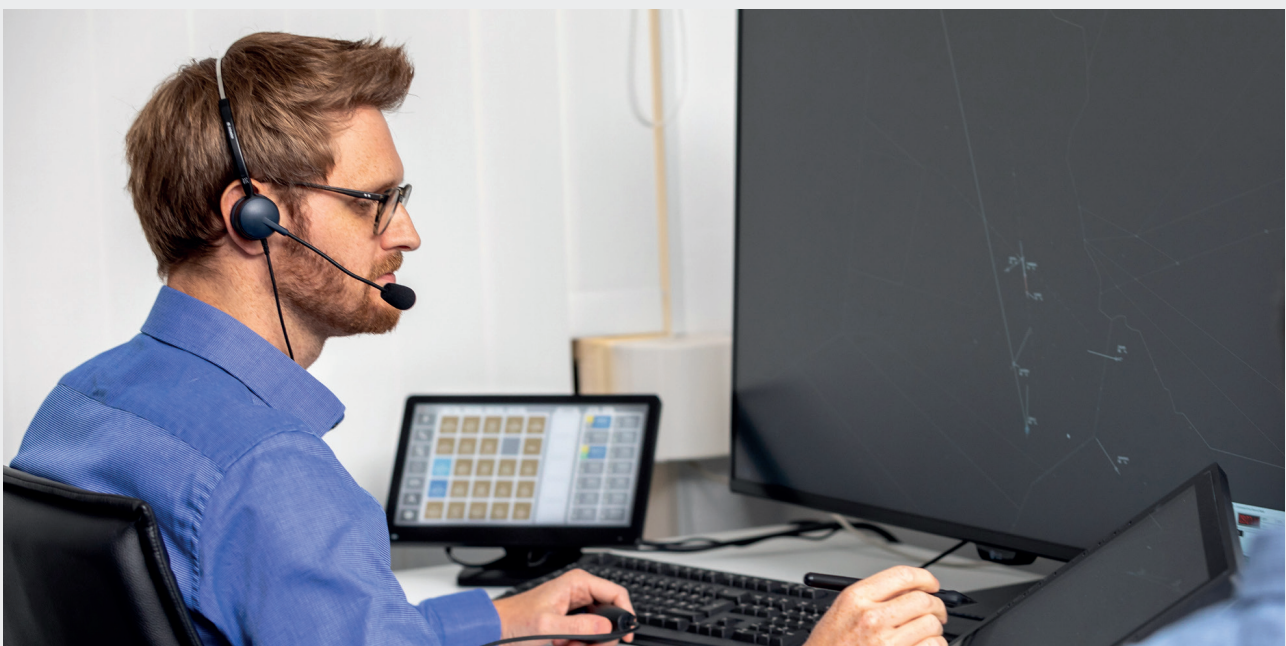
User interface

The innovative **ROSE** user interface has been developed in close collaboration with active controllers - this is why it is an appreciated tool for trainers and operators. Debriefing, developing and testing have never been that simple.

Aircraft performance

The aircraft performance model within **ROSE** is highly realistic. A number of parameters are used to describe individual aircraft types, e.g. horizontal and vertical speed, engine performance (accelerate / decelerate), speed on final approach etc.

Label input options, 4D trajectory, 3D airspace modelling and a flexible role concept prove that **ROSE** simulation is state-of-the-art.



Need to get even closer to reality?



In collaboration with SkySoft-ATM we have developed the ATC trainer SKYSIM.

ROSE is the traffic generator & exercise preparation module of SKYSIM. In this exclusive version, **ROSE** has extended functionality to be able to feed the operational radar display SKYVISUAL.

For further information
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Creator of the AIR Suite