THE
AIR
SUITE

Your entire training solution

ROSE Simulation

THE AIR SUITE

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.

AMOS

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.

Exercise design

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 kind of traffic.

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

IRIS

INDEPENDENT RADIO & INTERCOM SYSTEM

IRIS is an independent communication system, which can be used in various contexts. The smart solution works with VoIP technology.

To set up **IRIS** you don't need any specific soft- or hardware. Simply plug in a headset, start the application and connect to other computers via the local network.

You may define different frequencies and telephone roles freely. The selection of roles and frequencies for every station can be done flexibly and easily.

Radio Com Options

IRIS offers the option to lock different frequencies (either „Talk & Listen" or just „Listen") and communicate with everyone on those frequencies via push-to-talk.

Define up to 16 different frequencies and lock any of them separately on each station.

Telephone

The **IRIS** telephone includes various options: You can call every single station that is connected via the network and communicate on permanent duplex lines.

For this you simply choose your telephone partner, ring this position and wait for him to pick up the phone. There is another option: In case of any urgency you can prioritize your call and establish a connection right away without any waiting. **IRIS** differs between a "Call" and a "Direct Call".

The **IRIS** setup allows up to 36 different telephone roles. Each working position may select several roles at the same time. The multi-role concept allows a single user to act in different roles, e.g. as supervisor, fire brigade and airport authority from one position.

Talk to All

IRIS offers a unique "To All" functionality, which enables communication on a meta level, e.g. if the exercise supervisor wants to talk to all participants to inform them about the idea and progress of a combined exercise.

IRIS can be used in combination with **ROSE** and / or **AMOS**. The voice com module also works as a communication system for any other application or even stand-alone.

ROSE

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

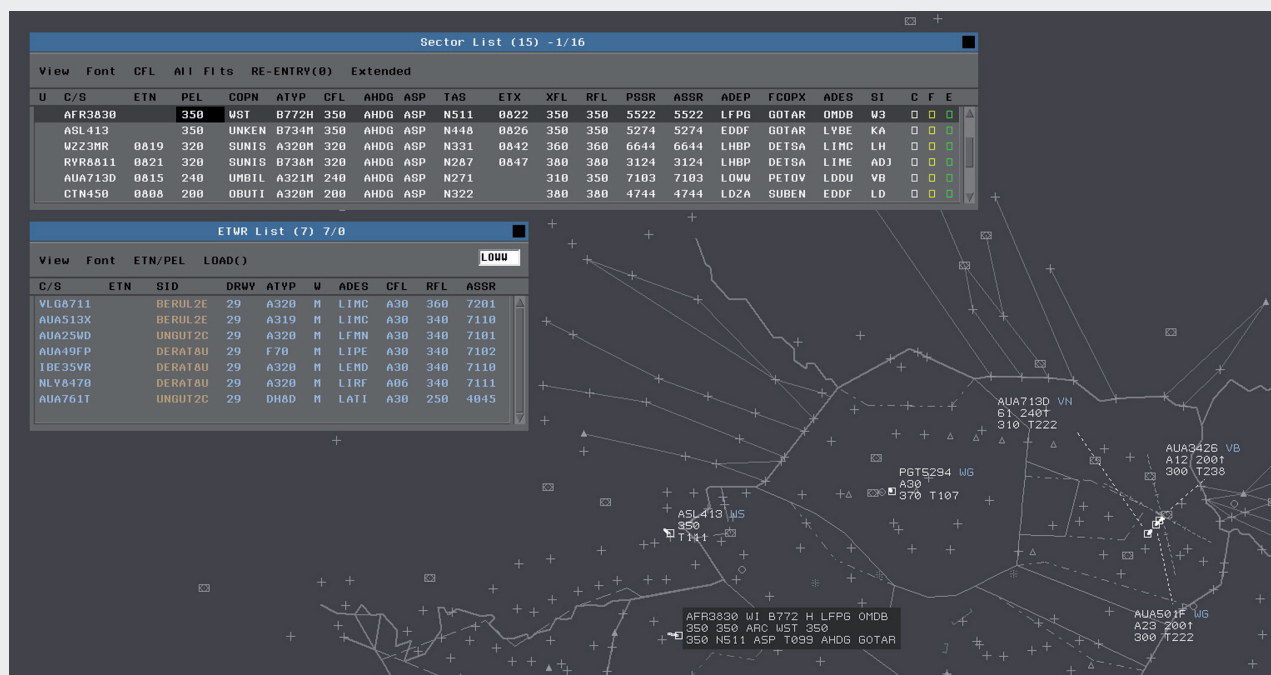▶ as a training platform in CBT studios

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.

ROSE Simulation GmbH

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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If you have any questions about our products **AMOS**, **IRIS**, **ROSE** or **ELSA** please get in touch.

We are glad to assist you.

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