



CASE STUDY

Simplified Usage with ROSE Simulation and Intradex

 ROSE Simulation

SIMPLIFIED USAGE

ROSE Simulation and Imtradex

During the last two years ROSE Simulation did two exceptional projects building up their AMOS Tower Simulation Suite. Customers are Oro Navigacija – European Air Navigation Service Provider for the Lithuanian air space and the Bahrain Ministry of Transportation and Telecommunications – Civil Aviations Affairs – the Bahrain ANSP.

Both simulation projects incorporated different working positions (next page for more) and an ultra-realistic 3D view of the airports. In total 5 different airports were digitally re-built and included in the AMOS tower simulation for a highly effective training. Imtradex provided the voice communication equipment for both projects. The AirTalk® Family provides state-of-the-art communication devices, incl. the capabilities to be integrated via USB into the overall system from ROSE Simulation.

The key advantage lies in the user-centric design of the components. Training with the operational devices plays a crucial role, providing enhanced usability and optimizing training effectiveness for the ATCOs.

By familiarizing themselves with their daily tools more rapidly, they can perform their tasks with higher efficiency and utmost safety, even in demanding situations. This aligns perfectly with the objective of the ROSE Simulation Software suite, which aims to train the right actions and promote intuitive behaviour among ATCOs.

Especially the project in the middle east was very specific as the operational headset, an AirTalk® 3000, needed to be integrated from the analogue VCS system into the digital simulation world. This was made with the innovative AirTalk® Dongle.

AMOS Tower Simulator

AMOS Tower Simulator

- High-end graphic & performance in a full-scale simulator
- Full-featured enrichment for basic training, running on any standard computer
- Scalable solution
- Built-In Editors



AirTalk® USB dongle

Connect your live headset to your choice of simulation & training system

- Well established USB technology
- Easy connection with the right connection to your live headset
- USB stays at the training system.

SETUP LITHUANIA

Setup

- 2 Controller working positions
- 2 Supervisor positions
- 2 Simulation pilot positions
- 1 Portable exercise/data preparation position
- 3D view with 10x 75" screens
(2x 180° split view possible)

The physical simulation center is located in Vilnius and has incorporated 4 airports, which were 3D built from ROSE Simulation.

AIRPORTS

The airports are Vilnius (EYVI), Kaunas (EYKA), Palanga (EYPA), Siauliai (EYSA).

Imtradex Hardware in use

AirTalk® XS and AirTalk® XD USB Headsets with PTT-13, USB Handset HS3 and USB Microphone HT-2



SETUP BAHRAIN

Setup

- 2 Controller working positions
- 1 Supervisor positions
- 2 Simulation pilot positions
- 1 Portable exercise/data preparation position
- 3D view with 9x 65" screens

Imtradex Hardware in use

AirTalk® Dongle and AirTalk® operational headset (already in use at the customer)



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ROSE Simulation

About ROSE Simulation

ROSE Simulation is the creator of the AIR Suite, a fully interconnected, ever evolving set of ATC training solutions, comprising of the AMOS Tower Simulator, the IRIS VoiceCom System and the ROSE Radar Simulator.

Founded by two experts in the field of air traffic control, academy training and software development, ROSE Simulation is certain to address the true demands for ATC training of air navigation service providers, airports and universities alike.

ROSE Simulation is highly proficient in planning, implementing and managing fully customized turnkey solutions for the entire ATC training infrastructure. Setups can be designed for any dimension - from well-organized 1:1 training stations to full 360° tower simulators, featuring several working positions and custom-built consoles.

www.rose-simulation.com



About Imtradex

IMTRADEX is a Germany based, owner managed SME company with headquarter in Dreieich, close to Frankfurt/Main. Founded in 1992, IMTRADEX develop, produce and sell communication equipment for mission critical and business critical applications. Since then, a major area of communication solutions are developed for the ATM market, which leads to that IMTRADEX is one of the major manufacture for ATC headsets and equipment for use in different areas, such as center, tower or other control room areas.

IMTRADEX offers a high flexibility with the AirTalk® Family provides a fully package of headsets and respective PTT's and connectivity to global ANSP's and the major manufacturer of VCS systems.

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