

## ADACEL CUSTOMER TESTIMONIAL



# Emirates Aviation College



**“Without a solution like the Adacel MaxSim, this state-of-the-art center could not exist. MaxSim surpassed our expectations and raised the bar for ATC instruction in the Middle East.”**

—Ulf Grinsvall, ATC Chief Instructor – Emirates Aviation College Aerospace and Academic Studies

### SOLUTION SUMMARY

#### Industry

Education

#### The Challenge

To create a system that can encompass this regions growing demand for ATC training.

#### The Solution

Adacel's MaxSim Tower solution with integrated Radar positions

#### About Emirates Aviation College (EAC)

In 1988, the government of Dubai endorsed the Department of Civil Aviation's proposal; to establish a world-class aviation college. In September 2001, the college was merged with Emirates to form the "Academic Wing" of the Emirates Group, and on January 1st, 2002 Emirates acquired Dubai Aviation College and renamed it Emirates Aviation College for Aerospace and Academic Studies. The college offers a variety of standard and tailored career programs to meet the personnel requirements of the aerospace, travel & tourism, business management and Air Traffic Management industries.

#### Realistic Environment Enables Revolutionary Learning

It was evident that after utilizing a 2D tower simulator that EAC needed to procure a more advanced simulator that would provide users with a more realistic and comprehensive training solution. This foresight into future EAC training needs was evidenced by the high demand for ATC training in the region. Maximizing the training throughput was a major factor in EAC's decision to purchase MaxSim. After considering other ATC simulation solutions, EAC chose Adacel for its ease of use, large user base, competitive price, advanced visual system, and for the flexible use of 3D/Radar set-up. "Other solutions we considered would have required us to hire additional staff to maintain the system," said Ulf Grinsvall. "But with MaxSim, we reduce costs considerably by not having to, and we can manage this solution ourselves."

#### More Flexible Approach to ATC Training

By implementing MaxSim, EAC has optimized its resources and increased its training reliability and scalability while improving its return on investment (ROI).

As EAC continues to grow and its number of registered students continues to increase, related demands on training also grew. In order to keep up with the increased demand, EAC needed



to implement a realistic and effective air traffic control Tower & Radar training solution that offered the students high quality, photo textured airport visual scenes, flexible aircraft performance databases and customizable visual scenes.

Ulf Grinsvall, EAC's Chief Instructor, explains, " Our legacy ATC system was unable to handle the demands and needs that are necessary for exceptional ATC training. With precipitous requests for ATC training, EAC needed a flexible way to manage the ever-increasing demand and provide integrated 2D/3D Tower capabilities with Radar interfaces. We decided upon the MaxSim Tower Radar to use our resources more efficiently. By using the MaxSim in configurations such as APP radar, APP procedural, 2D & 3D tower, we have received outstanding results. Adacel has created a solid teaching infrastructure that provides the utmost training flexibility, efficiency and accuracy."

To build the 225-degree MaxSim, Adacel deployed 5 diagonal rear-projection displays with a customized database of airport scenes, aircraft models and aircraft liveries. The flexible MaxSim can be utilized as either a 2D or 3D tower simulator and the Radar simulator can be used individually or fully integrated into the Tower environment.

A number of factors influenced EAC's decision to procure an Adacel MaxSim solution. First, EAC wanted to implement an ATC training system that included emergency procedures, low visibility training and was suitable for proficiency checks. Second EAC wanted to develop an airport research and development capability, and third, EAC wanted the flexibility to build upon the system and manage resources more efficiently.

With an eye on the future and anticipating continued rapid business growth, EAC also appreciates the flexible scalability of Adacel's ATC simulators. " We intend to increase the number of training positions and increase the field of view from 225-degrees to 270-degrees or 360-degrees and we look forward to working with Adacel on this solution expansion," says Grinsvall.

"Adacel's MaxSim affords our users with reliable and realistic ATC simulation training. In particular, Adacel's progressive civil functionality supports both FAA and ICAO standards, through MaxSim's ability to re-create airport ground maneuvers for aircraft and ground vehicles. Adacel's MaxSim also provides students assessment data collection module, thus guaranteeing easier student management," said Grinsvall.

Adacel's MaxSim is a stable and flexible tower & radar environment that has the ability to recreate airport and ground maneuvers for aircraft and ground vehicles, additionally, the solution is capable of supporting all current airborne flight procedures. MaxSim Tower's powerful data editing tools allow the user to easily create and ensure future aircraft and ATC procedures can be implemented when necessary.

#### **Steady Growth Path**

Adacel solutions are known to optimize ATC resources, enable true-to-life visuals and provide users with tools that enable rapid ROI. According to Grinsvall, "We selected Adacel's MaxSim because the company is recognized around the world for its technological capabilities, excellent visual system and flexible use of 2D and 3D radar set-up. As a result, our throughput has increased, thus enabling us to dedicate more time and energy on effectively training our users."

EAC is now closely examining the possibility of implementing voice recognition and full flight simulations that allows fully integrated training/proficiency scenarios between pilots and ATC's. "We plan to continuously evolve our program with Adacel's MaxSim. In this respect, our realistic ATC training instruction and our partnership with Adacel has significantly contributed to the success of the EAC ATC program and to our future," concludes Grinsvall.

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