

## ADACEL CUSTOMER TESTIMONIAL



# ENAV S.p.A.



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–Franco Moschettoni, ATC Instructor and Head of Basic CTA Courses, ENAV

### SOLUTION SUMMARY

#### Industry

Civil Aviation

#### The Challenge

With Italy's air traffic increasing by 5%-6% annually, there is a growing need for realistic air traffic controller training. ENAV also needed a fully functional simulator that could fit into a small space

#### The Solution

Adacel delivered four 135-degree MaxSim Tower simulators

#### About ENAV

Started in 1982, from the demilitarization of air traffic control (ATC) services, ENAV S.p.A. provides flight assistance services to Italy's general air traffic. With over 3200 professionals, ENAV's impressive air traffic operations encompass the island of Malta to Sardinia to Albania. ENAV has its own training center in Rome, the CFSNA (Centro Formazione Servizi Navigazione Aerea – Air Navigation Services Training Center), where they train air traffic controllers and flight assistance specialists. Additionally, ENAV provides training services to organizations around the world.

As one of Italy's leading organizations, ENAV's core strength lies in the expertise and capabilities of its professional air traffic controllers. Underpinning ENAV's achievements is its commitment to technology. “Technology is at the core of our business,” says Franco Moschettoni, ENAV's ATC Instructor and Head of Basic CTA (Controllori del Traffico Aereo – Air Traffic Controllers) Courses. “We demand extensive training because the slightest mistake could be fatal”.

“We had a 2-dimensional simulation system which did not totally represent the tower control and it lacked much needed flexibility,” said Moschettoni.

With over 150 air traffic controller trainees a year, and an steady increase in air traffic, it became increasingly clear that if ENAV wanted to move into areas such as emergency situation training and aerodrome simulation, they needed to work with an ATC simulation system that can provide an accurate representation of tower and radar controller activities. ENAV considered ATC simulation solutions from a number of vendors, “We wanted a solution that was proven and scalable, from a company that was going to be around to support us,” says Moschettoni. The organization chose to implement the MaxSim system to meet the challenges of new air traffic controller requirements, and to update their legacy system. MaxSim offers great flexibility, versatility and excellent performance



and was suitable for ENAV's small space requirements. Adacel's ATC solutions boast powerful voice recognition capabilities and have a long and successful track record of serving large and small civil and military organizations.

### **Improved Capabilities**

"MaxSim is the most elegant, cost-effective and realistic training solution that we can deliver to our air traffic controllers and customers," notes Moschettoni. "MaxSim has allowed us to expand and modernize our simulation capabilities. It makes it possible for us to completely cater to national air traffic controllers needs and provides us with the means to extend our training services abroad."

The transition from old solution to new was as seamless as possible to ensure that students training would not be disrupted. Moschettoni asserts that he has heard nothing but positive comments on the system's unparalleled capabilities and ease of use. "3-dimensional visuals were something that we never had before," he says. "Now with MaxSim's highly flexible simulation solutions which includes powerful scenarios and data preparation tools to create new routes, procedures and aircraft performance profiles, ENAV's students are learning and building the necessary skills in an true-to-life environment."

The use of common tools and features across the product range, such as pseudo pilot interface and scenario preparation tools, MaxSim ensures the maximum efficiency of sometimes scarce human resources. Thanks to the use of COTS hardware, ENAV was able to achieve an unmatched level of reliability and availability of their simulation services. COTS hardware also enables ENAV to deploy a system that is cost-effective and allows for expansion.

### **Results**

"MaxSim's feature-rich visuals and scenarios has provided us with extreme adaptability that we need to satisfy our training requirements", says Moschettoni. "It has dramatically improved and increased tower controller trainee productivity and makes it possible for us to introduce complimentary simulation training in emergency situations and organize new types of courses for aerodrome controllers and emergency situations – where students can train to react quickly and effectively in any situation," concludes Moschettoni.

### **A Solution for the Future**

In 2005, CFSNA will move to a new and much larger location in Forlì (Emilia-Romagna). This site will allow for the expansion of the tower simulators' 3-D presentation from the current 135-degree configuration to 180-degree or 210-degree configuration, and for the potential integration of a voice recognition system (currently under study), and for the creation of a multimedia room with 12-15 desktop radar simulators, to be used for stand-alone training of students.

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