

CBAST™

Solutions for Air Traffic Control Training



e.sigma Solutions for Air Traffic Control Training (CBAST™) are proven and modular systems for civil and military ATC training requirements. The system architecture allows the scaling of controller, instructor and pseudo pilot positions, as well as tower visual systems from office-room size to large scale training centers.

Operational Benefits

- Comprehensive training of all air traffic control positions
- Emergency procedure training for air and ground controllers
- Refresher training
- Primary and secondary radar simulation
- User-friendly scenario development tools for interactive exercise generation and control
- Realistic display of physical environment, realtime weather and special effects
- Complete classrooms with integrated pedagogical network for Computer Based Training (CBT)
- ATC Applicant Screening System to test visual and auditory skills, spatial relation and other skills required for ATC
- Training management system with integrated scoring and evaluations
- Extensive exercise recording (audio, video, metadata) for replay and debriefing
- Fully scalable ATC systems, customizable to best suit different needs and budgets
 - ATC Table Desktop Simulators
 - ATC Tower Simulators in different sizes

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Technical Features

High Resolution Visualization System

- High resolution visualization system with real time weather and realistic 3D environment for
 - ATC Table Desktop Simulator with 3 channel system and 180 degrees field of view and
 - ATC Tower Simulator with up to 32 channel system and 360 degrees field of view
- Photo-realistic, geo-specific databases with more than 30 aerodromes and more than 50 3D-models of aircraft, helicopter and ground vehicles
- Realistic model behaviors based on the characteristics of the original vehicles

Fully Functional Training Environment

- Temperature and noise shielded tower cabin
- Paper and electronic flight strips
- Communication system with integrated voice recognition system
- High resolution display system with high contrast projectors
- Realistic radar simulation system for Area Control, Approach Control, Ground Control and Precision Approach Control
- Scalable architecture for tower and radar positions
- Navigation aid status displays, weather monitor, lighting panel, crash alarm
- Surveillance cameras for monitoring trainee performance
- 3D sound system

Computer Based Training

- Advanced 3D multimedia techniques and learning modules for CBT lessons
- Computer Based Training based on modern standards and formats

