

Tower Simulator (ACC, APP, 3D TWR, GND)

This simulator is one of the most comprehensive in the market. Being an operational solution with simulated input data makes the system relevant for ATCOs and ATSEP trainees alike.

ATCO students benefit from a seamless environment comprizing ACC to TWR with all flexibility of a modern ATC environment, including virtual towers, flexible and reconfigurable working positions and even an expert system for the evaluation of options.

Hardware Components


- All hardware equipment is COTS, compliant to ICAO operational requirements.
- Computers are PCs COTS type high performance for tasks assigned, following the requirements of operational systems.
- Touchscreen monitors are either table or chassis models or mounted on an arm, humidity resistant
- VCS equipment with high robustness and convenience in use, such as lightweight headsets
- Servers are heavy duty robust machines of industrial make in order to withstand the demand for computing power and high heat dissipation
- Dolby Surround 5.1 Sound System including Doppler Effect
- Flight Data Processing System
- Strip Printing System
- Working positions are either robust integrated consoles or free standing equipment, depending on customer requirement and budget.



Software Components

The system includes (a subset of or all) the following components:

- Controller Working Positions CWP
- Pseudo-Pilot-Positions PPP
- Image generator to generate the 3D scene
- Sound generator generating a dolby surround sound
- Traffic generator for air and ground traffic
- Safety Nets such as: STCA, MSAW, DAIW, CLAM, RAM
- System Management Module, managing system resources and interfaces
- Flight Data Processing System FDPS

	RAMSA	DOBAT	LOTAT	PAK853	W
0003	0015	0041	C3305	300	470
300	250	250	A300/H	OPPS	OPKC

- Voice Communication System VCS including recording and replay
- Technical workstation, including system admin and backup tools
- NTP server as time reference system
- Time-synchronized audio and video recording and replay system
- Learning management system, monitoring and evaluating the students performance, information management and sharing for the instructors
- Basic exercise editor and presimulator for the exercise workstation
- Flights database tools for generation and usage of flights database library
- FIR mapper for the preparation of the airspace database and surveillance videomaps
- TWR mapper for the preparation of the aerodrome database and ground videomaps
- Strips designer for electronic and paper-based strips
- Aircraft capabilities editor
- and more

File Kick Help

Flightdata1: 02 FLIGHT_DATA ACC 2	ACC Controller: 02 CONTROLLER ACC 1
Flightdata2: 04 FLIGHT_DATA APP 1	ACC Coordinator: 02 CONTROLLER ACC 1
Pilot1: 01 PILOT TWR 1	APP Controller: 04 CONTROLLER APP 1
Pilot2: 02 PILOT FIR 1	APP Coordinator: 04 CONTROLLER APP 1
Pilot3: 04 PILOT FIR 1	Ground Controller: 01 CONTROLLER TWR 1
Pilot4: 06 PILOT FIR 1	PAR Controller: 06 CONTROLLER PAR 1
Supervisor Radar: 02 SUPERVISOR ACC 1	TWR Controller: 01 CONTROLLER TWR 1
Supervisor TWR: 01 SUPERVISOR TWR 1	

Set WS

WS

Flightdata1 ▼

SES

2 ▼

CMD

CONTROLLER

PILOT

SUPERVISOR

FLIGHT DATA

SUB

APP

ACC

TWR

PAR

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

SET

01 00:00 PESHAWAR_DEMO	02 FREE
03 FREE	04 FREE
05 FREE	06 FREE
07 FREE	08 FREE
09 FREE	10 FREE