



A new level of safety at Rabat Salé Airport.

Ambient System has delivered an intelligent PAVA system based on the smartVES series to one of Morocco's key airports.

CLIENT'S OBJECTIVE

Rabat Salé Airport, serving the capital of Morocco, underwent a modernization aimed at increasing passenger capacity and raising safety standards. As part of the project, a new passenger terminal was built and equipped with a Voice Alarm System fully compliant with the EN54 standard, ensuring top quality voice communication.

PROJECT SCOPE

Ambient System delivered a complete PAVA system based on smartVES devices. smartVES is equipped with advanced real time audio processing algorithms, enabling

maximum speech intelligibility in challenging acoustic conditions and environments with variable noise levels — typical for airport terminals. The smartVES system uses a set of intelligent DSP algorithms that automatically adapt audio parameters to the current acoustic conditions of the terminal:

- » **Adaptive Filtration (AF)** – compensates for noise and reverberation by dynamically adjusting the frequency response only in necessary bands.
- » **Automatic calibration (auto tuning)** – the system plays test signals and analyzes them using SMART ANSM 01

SCOPE OF DELIVERY

The solution includes a smartVES Voice Alarm System (distributed, 8 cabinets), SMART-ANSM adaptive sensors, YELLOW monitoring software, and on-site integrator support.

microphones, selecting appropriate filters to increase STI.

- » **Noise Tracking** – continuously monitors and compensates for changing noise levels, ensuring the correct signal to noise ratio (SNR).
- » **STTA** – intelligent adjustment of the operator's live speech tempo to the acoustic conditions of each zone to improve intelligibility.