

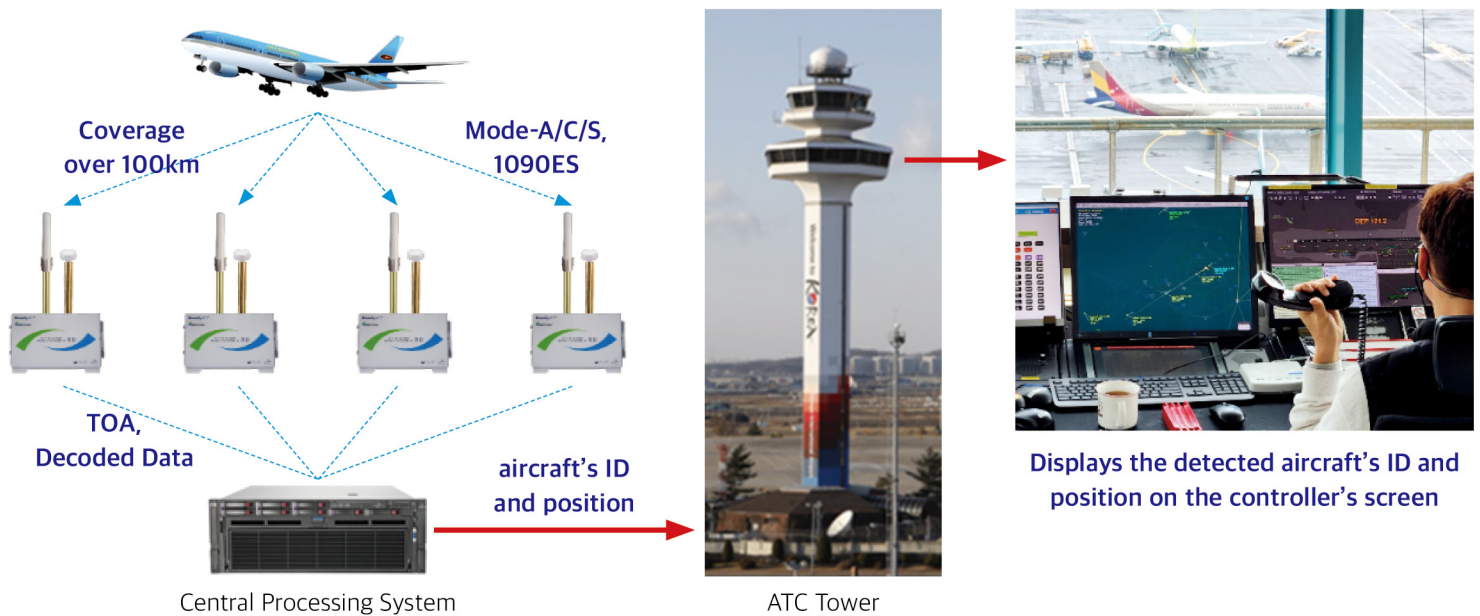
# Aircraft Position and ID Surveillance System (MLAT : Multilateration)



## Overview

- MLAT ground stations receive replies from all transponder-equipped aircraft, including legacy radar and ADS-B avionics. And determine aircraft position based on the time difference of arrival (TDOA) of the replies.
- While the Multilateration concept was originally developed for military air surveillance purposes, one of its earliest civil aviation applications was the monitoring of aircraft movements on the airport's surface.

## System Configuration



## Approved

- **Certificated by Minister of Land, Infrastructure and Transport, Republic of Korea ('2023)**
  - Complies with the Ministry of Land, Infrastructure and Transport's navigation safety facility installation and technical standards MLAT
  - Complies with the international technical standards
    - ✓ ICAO Annex 10 MLAT System
    - ✓ RTCA DO260A (Mode S, 1090ES, ADS-B, TIS-B)
    - ✓ EUROCAE ED-117 (Mode S MLAT)
    - ✓ EUROCAE ED-73E (SSR Mode S Transponder)
    - ✓ EUROCAE ED-109A (Aviation Software Certification)
- **Designated as one of the 100 national R&D excellence achievements ('2022)**
- **Innovative Product Certificate ('2022)**
  - 6 products including MLAT system, receiver, and interrogator