The Laboratory has also been active in communications for civil aviation, including:
- Mode S Data Link,
- Traffic Information Service (TIS),
- Graphical Weather Service (GWS), and
- Terminal Weather Information for Pilots (TWIP)
and navigation including Global Positioning System (GPS) for civil aviation.

Beginning in the early 1970's, Lincoln Laboratory has been instrumental in the development of surveillance systems such as:
- Mode S Secondary Surveillance System,
- Traffic Alert and Collision Avoidance System (TCAS),
- Airport Surveillance Radar (ASR-9),
- Airport Surface Surveillance and
- Automatic Dependent Surveillance-Broadcast (ADS-B)

The Air Traffic Control (ATC) Systems group at M.I.T. Lincoln Laboratory carries out aviation-related research and development in:
- Communications, Navigation and Surveillance (CNS) and
- ATC Automation
for the Federal Aviation Administration (FAA), National Aeronautics and Space Administration (NASA) and Department of Defense (DoD).

In addition, Group 92 has carried out work since the 1980's in ATC automation in the areas of:
- Oceanic automation,
- En Route automation,
- Terminal automation, and
- National Airspace System (NAS) architecture
including support for en route software rearchitecture for the FAA and the Center/TRACON Automation System (CTAS) for NASA.

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