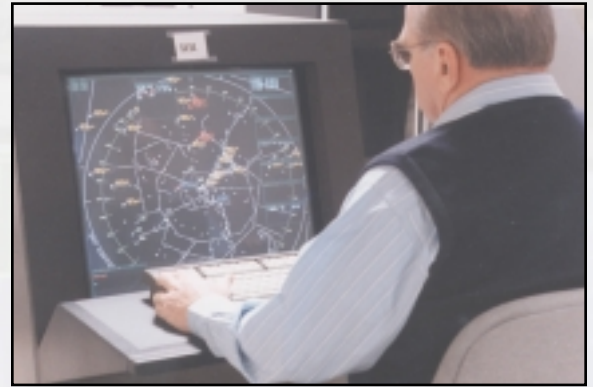


ATC Engineering and Test Division

Standard Terminal Automation Replacement System (STARS)

The Standard Terminal Automation Replacement System (STARS) program provides a new terminal automation system that uses a modern commercial open architecture that solves the existing capacity problems and meets future terminal air traffic control (ATC) needs.



STARS Full Service will be used to support both primary and secondary radar target identification, maintenance of target identity, radar separation, traffic and weather advisory services, and navigation assistance to participating aircraft in all Terminal Radar Approach Control (TRACONS). STARS will also provide full ATC operational functionality equivalent to that of the TRACON in all tower cabs. STARS data display will include aircraft position data, aircraft status, flight plan information, and general information. STARS will continue to provide safety functions such as Conflict Alert (CA), Mode-C Intruder (MCI), and Minimum Safe Altitude Warning (MSAW). Supervisory and traffic management specialists will use STARS for operational oversight to support real-time air traffic control. STARS includes an emergency service capability to provide uninterrupted ATC operations in the event of a failure to the full service system.

A DOD version of the STARS went operational at Eglin AFB in Florida in June 2000. This version consists of a Full Service Level (FSL) for the primary system and an Emergency Service Level (ESL) for the back-up system.

A version of STARS, known as the Early Display Configuration (EDC), went operational at two FAA facilities; namely, the El Paso, TX, TRACON (Dec. 1999) and the Syracuse, NY, TRACON (Jan. 2000).

KEY ACCOMPLISHMENTS

- Successful completion of testing (DT&E, OT&E, El Paso and Syracuse Key Sites) for the STARS EDC System.
- Successful Initial Operational Capability (IOC) at the El Paso, TX and Syracuse, NY TRACONS.

Efficiency
System



System Efficiency

- Successful completion of testing (DT&E, Key Site Test) for DOD's STARS System at Eglin AFB.
- Successful IOC for DOD's STARS System at Eglin AFB in Florida.
- Completion of STARS Test and Evaluation Master Plan (TEMP).
- STARS laboratory enhancements, which include construction and testing of five laboratories used for both test and AOS system maintenance support.
- Enhanced STARS test tool capabilities, including the STARS Interfacility and Radar Simulator (SIRS). Provided SIRS to the FAA Academy, two Operational Support Facilities (OSFs), and Raytheon sites.

The STARS Full Service System (FS-1) is in the final stages of development and integration. FS-1 will undergo testing prior to implementation.

For more information on the Standard Terminal Automation Replacement System (STARS), contact:

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