PROVEN AUTOMATION SOLUTIONS

- Designed to support NextGen Automation in the U.S.
- Flexible, adaptable architecture and CHI
- Comprehensive alert and warning system tailored to each operational domain
- Multi-sensor fusion tracking (WAM, ADS-B, Radar)
- Multi-sensor tracker operational in the NAS
- Operationally proven Datalink services (CPDLC, DCL)
- Compliant with ICAO 4444 – 2012 flight plan
- Allows users to expand/combine sectors at the same facility or remotely
Thales’ automation solution is in use by more than 16,000 air traffic controllers in 280 control centers worldwide.

Built on a flexible platform using common hardware and software, Thales’ automation solution is scalable and adaptable for tower, terminal, en route, and oceanic applications.

Thales’ automation solution reduces infrastructure costs, improves work environments, reduces time and costs for training controllers, and provides a sustainable technology platform to enable NextGen.

**NextGen Features Available Today**
- Improved situational awareness through multi-sensor fusion tracking of MLAT, ADS-B, and radar
- Adaptable computer human interface (CHI) for seamless integration of 3rd party decision support tools (DSTs)
- Realistic 4-D trajectory calculations of aircraft including flight evolutions and controller clearances
- Fully integrated data communications services (CPDLC, DCL)
- Adaptability allows controllers to configure automation for local business rules and airspace

**Most Advanced Alerting System**
- Advanced Thales Alert Server (ATLAS) incorporates multi-hypothesis models for short-term conflict alerting in approach airspace
- Danger area infringement warning for military/special use airspace
- Multi-sensor tracker and processing system improves controllers’ ability to identify and resolve conflicts
- Medium-term conflict detection with improved prediction using trajectory models
- Long-term conflict detection using “what if” probes of flight data and proposed clearances
- Route/altitude adherence warnings

**Low Life Cycle Cost**
- Common COTS system hardware and software components regardless of application
- Obsolescence planning for mid-life upgrades ensures long term sustainability
- Component based architecture and use of open, well defined interfaces allows for seamless integration or third party DSTs
- Training is simplified through common CHI and hardware configuration

**Thales Commitment**
- Thales and its customers collaborate every 18 months through a Thales Users Group (TUG) to share best practices and to exchange information on the application of Thales products in air traffic management
- Thales is a key contributor to NextGen and SESAR