



AIR TRAFFIC MANAGEMENT (ATM) SERVICES

- Concept Development and Analysis
- Operational Support and Validation
- Information Management and Data Systems Engineering

Concept Development & Analysis Service

LST supports engineering and operational aspects of Concept Exploration and Development. We provide robust assessment of the current operations through our integrated teams of systems engineers and air traffic, flight operations, and flight deck subject matter experts. We assess operational needs and system limitations to prioritize concepts based on mission value and feasibility. Our concept development services include creation of Concepts of Operations, Scenarios and Use Cases, as well as Operational Need and Value Assessments.

LST also provides services to analyze and validate concepts focused on aligning the operational and engineering aspects to identify and ensure the operational value is understood by all stakeholders. Our services include facilitation of Cognitive Walk-throughs, Guided Discussions, Table Top Exercises, and structured engagement sessions bringing together relevant stakeholders to validate the feasibility and value of concepts and proposed capabilities. Our Scenario and Concept Analysis service delivers assessments of operational viability, value and validation of ATM procedures in support of the concept. LST has experience developing operational requirements, defining demonstration scenarios, developing and coordinating scripts in support of FAA demonstration and prototyping events.

Operational Support & Validation Services

LST provides ATM operational subject matter expertise across the breadth of concept development and program execution phases. Our experts possess experience across all aspects of Air Traffic including, Tower, Terminal, En Route, Oceanic, as well as flight deck and airline operations. Additionally, our experts bring Traffic Flow Management experience single facility to national application. Our experts provide domestic and international ATM expertise during the development and validation of new concepts, implementation programs, and international policy development.

LST Quick Facts

400+

Telecom and Engineering professionals

ISO 9001:2015

Certified

GSA Schedule

Contract #47QRAA22D004G

Representative Work Efforts

- NextGen Capability Maturation and Operational Improvements
- Enterprise Architecture Artifacts Creation
- International / Global Standards
- FAA Concepts, Scenarios, and Use Case Development for Operational Improvements
- FAA Operational Alternatives Analysis



AIR TRAFFIC MANAGEMENT (ATM) SERVICES

- Information Management and Data Systems Engineering

Information Architecture

LST provides information architecture and data engineering, including conceptual frameworks supporting new operational requirements, associated information exchange and data requirements analysis, information service & security architecture development, strategic analysis of NAS systems and infrastructure, and policy and standard integration. This support includes:

- Exchange model analysis & development;
- Cloud application supporting ATM operations (SWIM);
- Information Access and Management Support;
- Web Collaboration Tools/Network;
- Technical Support of Global Standards and Requirements; and
- Information Services.

LST works with customers to define data exchange requirements supporting information service architecture. Using a structured framework, we provide a flexible method to define the supporting data infrastructure to meet the needs of unique operational environments and ensure global harmonization. The resulting products enable service providers and stakeholders to develop more effective processes, procedures, and mechanisms supported by flexible information services to respond to operational challenges. LST works with stakeholders to develop scenarios capturing stakeholder roles and responsibilities to provide the basis for information exchanges that ensure a common operating picture.

This detailed analysis and understanding of information exchange requirements supports development of comprehensive operational and performance requirements for technology solutions.

Representative Work Efforts

- Flight Information Data Exchange Support
- Flight Object Concept Development
- UTM Data Analysis
- FAA Future SWIM Services Analysis and Development
- Command & Control Infrastructure Cloud & Service Analysis
- NOTAM Concept and Aeronautical Data Analytics
- Performance-Based Flow Management Information Analysis

