MODELING, SIMULATION, AND OPERATIONS ANALYSIS (MSOA)

L3 Aerospace Systems Greenville’s team has the experience to solve today’s complex Modeling, Simulation, and Analysis challenges of conducting distributed joint distributed simulation exercises, performing effective mission rehearsal, operations analysis, creating and verifying models, recommending M&S tools and infrastructure products that satisfy dynamic specifications, regulations, and requirements.

The MSOA team provides products and services for modeling (physical, process, behavioral, or mathematical) complex information (data) into an abstraction or representation of air and ground platforms, weapons, synthetic environmental conditions for Live, Virtual, or Constructive simulations. The MSOA team has experience in man-in-loop and hardware-in-the-loop simulation software products that support multiple language text to speech processing, supporting multiprocessing of real mission data for ELINT, IMINT, and SIGINT driven simulation exercises.

MODELING, SIMULATION AND TRAINING (MS&T)

- Experience and IT infrastructure to support unclassified, collateral, or TS/SCI distributed simulation training exercises
- Use of COTS products plus internal M&S applications for effective operator training and data collection for student scorecards and exercise playback/after action reviews
- Experience integrating COTS, GOTS, and home grown simulation applications to conduct man-in-the-loop or hardware-in-the-loop M&S training activities

MODELING AND SIMULATION – OPERATIONS ANALYSIS (M&S-OA)

- Proven analytical methodology for conducting research studies and acquisition decision to support a Program’s specification and requirements
- M&S scientific and technical analysis functions tailored to support the M&S community
- Research and development activities using L3’s proven process methodologies combined with industry best practices to enhance the ability to access, acquire, collect, analyze, synthesize, generate and report M&S related technical information
- Analysis of M&S model(s) performance measures oversight
- Research and development of Measures of Effectiveness (MOE) for determining the impact of simulations on the training, analysis and acquisition processes
MODELING, SIMULATION, AND OPERATIONS ANALYSIS (MSOA)

MODELING AND SIMULATION – MANAGEMENT SUPPORT (M&S-MS)
• Onsite and/or distributed training exercises, mission rehearsals, analytical studies, etc., or identification of viable options for simulation support
• Program reviews, strategic planning, and exercise management
• Operations coordination and monitoring of M&S training, exercises, and operations
• M&S program reviews, and strategic planning
• Configuration, product line, release, and document management of M&S software
• Requirements, simulation event incidents, defects, and corrective action reports management for M&S software, products, artifacts
• Communications and distribution mechanisms for M&S artifacts and related materials
• Research, develop, implement, and evaluate collaborative simulation modeling and analysis tools

STANDARDS, ASSESSMENT, VERIFICATION, AND VALIDATION (M&S-SAVV)
• Onsite and/or distributed training exercises, mission rehearsals, analytical studies, etc., or identification of viable options for simulation support
• Performance measures verification, and validation of simulation model(s)
• Techniques, tactics, and procedures verification, and validation for mission specific simulation exercises and rehearsals
• Compliance oversight, guidance, and support for DoD certification of High Level Architecture (HLA) and other M&S standards
• Assessments mapping of simulation models’ vulnerability and survivability
• Research, develop, and execute applied standard verification and validation (V&V) processes to selected models and simulations
• Guidelines, oversight, and procedures to analyze and compare V&V results with objective model acceptance criteria in support of M&S accreditation
• Analysis of compared V&V results with objective model acceptance criteria in support of M&S accreditation
• Improve models, products, and artifacts by analyzing feedback from actual combat experience and applying appropriate updates into the model and comparing the results with actual combat results and investigating any ambiguities that result to check the model’s validity

SIMULATION INTEGRATED LAB (SIL)
• Conduct software and systems integration testing, acceptance testing, and V&V testing
• Conduct sensitive compartmented information testing, simulation training, and exercises
• Accessible and secure facility to conduct M&S events Program reviews, strategic planning, and exercise management

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