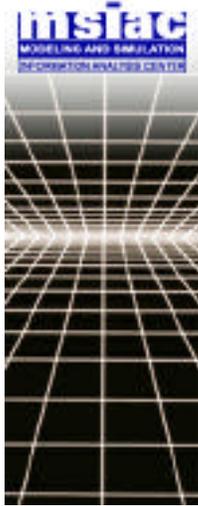




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Modeling and Simulation IAC (MSIAC)



MSIAC Aids Nuclear Surety

The safe and responsible handling and control of nuclear weapons and fissionable materials falls in the area of Nuclear Surety. Surety is a primary mission of the Energy Department's Sandia National Laboratories (SNL). Recently, SNL managers concluded they needed more expertise in modeling and simulation (M&S) to assist in establishing a comprehensive approach to management of a variety of surety-related M&S systems. Their solution is a new arrangement exploiting the diverse capabilities of the Modeling and Simulation Information Analysis Center (MSIAC). The MSIAC has been called upon to offer up objective advice and critical support, as one of our nation's leading scientific and technological organizations readies itself for the implementation of new M&S technology.

[Continued on Story 1](#)

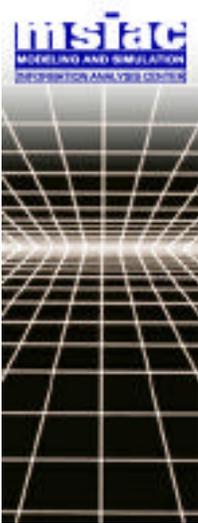
Simulation Based Acquisition Concept of Operations

Transformation of the Military is a process underway to meet the challenges that confront U.S. forces in the next 25 years. Central to the transformation process are measures to accelerate the process of acquiring new systems that will enable the revolutionary military operational concepts of the future. The process of transforming acquisition is called Simulation Based Acquisition (SBA). Many military commands are involved with efforts to systematically build SBA capability and infrastructure, and to institutionalize the processes it represents.

[Continued on Story 2](#)

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Modeling and Simulation IAC (MSIAC)

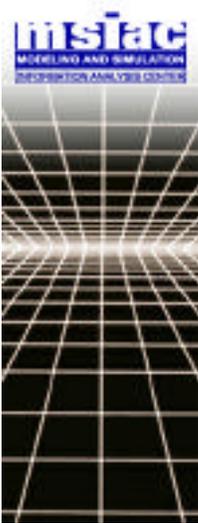


MSIAC Aids Nuclear Surety (continued)

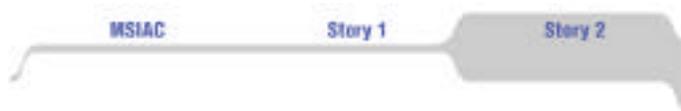
MSIAC will provide trusted, unbiased advisory support to the Government staff at SNL on the full range of M&S supporting the Surety Assessment Center. MSIAC expects to assist in refining the Center's M&S Plan, in performing a Functional Needs Assessment, and will develop a program roadmap with long range goals, critical paths, and successive technology milestones. MSIAC will develop a comprehensive Verification, Validation, and Accreditation (VV&A) plan, cost analyses, and configuration management processes. SNL will rely on MSIAC to identify and assess applicability of proven new software and M&S technology from commercial and other sources. The selection of MSIAC to support a DOE National Laboratory is a first for MSIAC, and, we hope the prelude to other such arrangements.

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Modeling and Simulation IAC (MSIAC)



Simulation Based Acquisition Concept of Operations (continued)

The wide variety of military systems and acquisition infrastructures makes it important that each Service determine the best approach for implementing SBA. The Air Force Material Command (AFMC) has numerous internal offices involved in establishing the SBA Concept of Operations (CONOPs). However, given the geographic separation of key personnel, it is often difficult to coordinate activities across the bases. Fortunately, MSIAC liaison officers at Wright-Patterson Air Force Base and Hanscom Air Force Base (two major AFMC technology Centers) have helped streamline the process. Those liaisons have worked with their respective networks of modeling and simulation contacts in the Aeronautical and Electronic Systems communities of AFMC to provide insightful analysis and facilitate informal coordination of AFMC's SBA CONOPs throughout its development stages. This has allowed the CONOPs to mature coherently without the confusion and misunderstandings often inherent in non-collaborative environments, and won both confidence, and vocal praise from senior leaders across the AFMC SBA enterprise.

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