

## **ITOP 1-1-056**

### ***SOFTWARE PERFORMANCE TESTING AND ANALYSIS***

#### **SCOPE**

This ITOP provides procedures to enable systems and software developers, their agents, procurement officials and certification agencies to perform and review a requirements-oriented approach for the test and evaluation (T&E) of systems that rely on software for their functionality. This ITOP provides procedures for the planning and execution of software performance assessment. The procedures are applicable throughout the system life cycle. Specific application of these procedures should be tailored to ensure that only necessary and cost-effective T&E is applied. The focus of this ITOPs is on the evaluation of the software's functional capabilities. It does not specifically address other software-related issues, such as safety and security. The method for undertaking software performance assessment which is discussed in this document addresses software T&E as an integral element of system T&E and is targeted at the system performance level. Key elements of this approach include the allocation of system requirements to software, assessment of software performance, and assessment of the impact of software on overall system performance.