

Training Customer Success



NATO C3 Agency Integrated Training Capability

Integrated Command and Control Software for Air Operations (ICC)

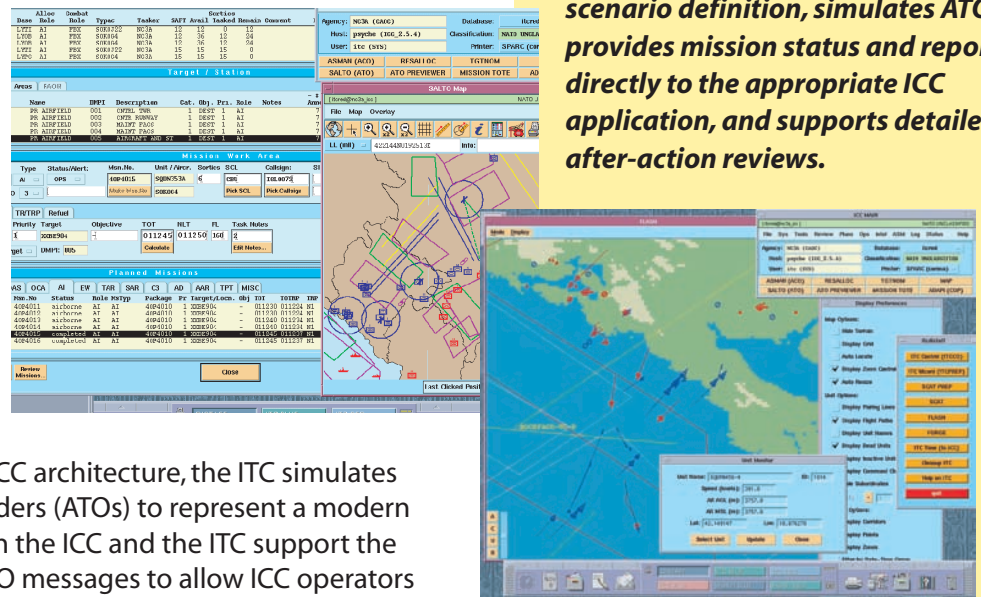
To maximize the operational effectiveness of the ICC, the staffs of NATO and NATO member nations must have frequent training in using the ICC in the context of realistic military operations. The Integrated Training Capability (ITC) makes this training possible and affordable.

With the guidance and sponsorship of NC3A, Ternion® Corporation developed the ITC using FLAMES®. Operating on a single computer integrated into a site's ICC architecture, the ITC simulates the execution of one or more Air Task Orders (ATOs) to represent a modern combat environment. Interfaces between the ICC and the ITC support the bi-directional exchange of standard NATO messages to allow ICC operators to interact with subordinate and command echelons that are simulated within the ITC.

Air and ground vehicles, sensors, communication devices, computers, weapon systems, and jammers are simulated within the ITC, as are the operations of many different types of units, including air bases, wings, squadrons, individual aircraft, and surface-to-air missile sites for both friendly and opposing forces. Trainees can exercise all the major functions of the ICC during the execution of an operational scenario and directly participate in the conduct of a battle. Exchanging data directly with ICC databases, ITC provides automated scenario definition, simulates ATOs, provides mission status and reports directly to the appropriate ICC application, and supports detailed after-action reviews. ITC can also be used for operational course of action analysis and planned refinement. Through these seamless data exchange mechanisms, ICC is employed exactly as it is in real operations for any ITC-supported evolution.

The robust and open architecture of FLAMES enabled the development of system models that precisely matched the ICC training requirements. FLAMES' support for modeling human cognitive behavior enabled the ITC to execute on a single computer with little or no role-player support. The foundation for many essential ITC features, including direct ICC database import and direct messaging interfaces to ICC systems, was supplied by FLAMES' comprehensive library of support services. Perhaps most importantly, the mature, object-oriented framework provided by FLAMES allowed the ITC to be developed quickly and inexpensively.

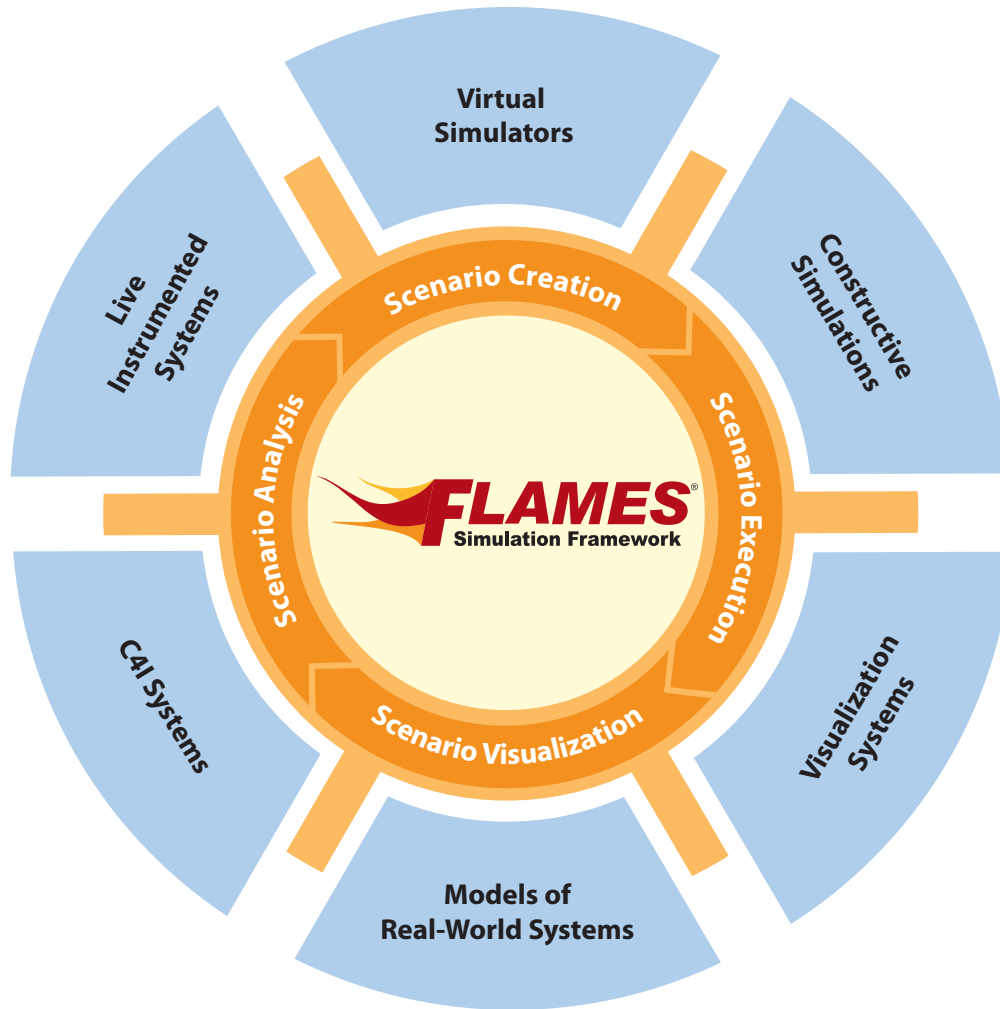
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About ICC

The "NATO-wide Integrated Command and Control software for Air Operations" (ICC) is an integrated C3I environment that provides information management and decision support to NATO Combined Air Operations Centers (CAOCs) during peacetime, exercise and wartime. ICC also provides related mission-essential functions to command echelons above and below the CAOC. The ICC provides functional support for the most critical functions of the air command and control cycle, such as Planning & Tasking, Airspace Control Order (ACO) / Air Task Order (ATO) / Air Task Message (ATM) production, and mission monitoring and reporting.





FLAMES-Based Simulation System

FLAMES is a powerful simulation framework that addresses all aspects of constructive simulation development and use, including customizable scenario creation, execution, visualization, and analysis, as well as interfaces to constructive, virtual, and live systems. FLAMES minimizes the amount of software development needed to get a full-featured, working simulation. At the same time, the open, object-oriented architecture of FLAMES gives you the flexibility to modify or enhance your simulation as necessary to meet your specific requirements. Get the simulation you need, when you need it, with FLAMES.

Since 1989, Ternion® Corporation has provided quality commercial simulation products and custom software development and support services to government and commercial organizations worldwide. Ternion is a privately held, employee-owned company located in high-tech Huntsville, Alabama.

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