®**TERNION**®
CORPORATION
Simulations That Work SM

FAST™

FLAMES® Automated Simulation Trainer
Field Deployable Training System

Ternion® Corporation's FLAMES Automated Simulation Trainer (FAST™) is a powerful, deployable training system that addresses the specialized needs of the training community.

FAST: FLAMES Automated Simulation Trainer

FAST is a turn-key, commercial off-the-shelf (COTS) simulation designed specifically to serve as the central constructive simulation in a live-virtual-constructive (LVC) training exercise. Based on Ternion Corporation's flagship product, the FLexible

Analysis, Modeling, and Exercise System (FLAMES®), FAST provides a powerful yet friendly graphical user interface for controlling simulated entities during scenario execution and tools for automatically creating scenarios from standard military data sources. Flexible, versatile, and configurable, FAST can be embedded in operational command and control systems to provide deployable, individual unit training, and it can also support large, multi-unit distributed training exercises.

FAST's Primary Features

- Physics-based simulation of air, ground, and surface sea entities, including vehicles, sensors, communication systems and networks, weapon systems, munitions, and human behavior
- Ability to simulate thousands of entities in "real time" on a single computer
- Support for all of the terrain modeling capabilities of FLAMES
- Automated scenario creation by importing Air Tasking Orders (ATO) and Airspace Control Orders (ACO) in US Message Text Format (USMTF)
- Support for a single "Director" station and any number of "Controller" stations, each of which can visualize an ongoing scenario in 2D, dynamically control entities, and create new entities
- Ability to interact with other simulations and virtual simulators using the Distributed Interactive Simulation (DIS) protocol and the High Level Architecture (HLA)
- Support for checkpoint and restart in the event of hardware or power failure
- 3D visualization of a scenario (in real time or playback) using FLASH

The following features require an export license when delivered internationally:

- Bi-directional communication with tactical systems using the JREAP C (MIL-STD 3011-C) interface
- Support for J-series tactical messages, including J2.2, 2.3, 2.5, 2.6, 3.0, 3.2, 3.3, 3.5, 3.6, 7.0 (partial), 7.5, 12.1, 12.4
- Support for Precise Participant Location and Identification (PPLI) message generation
- Support for AN/TPS-59 radar simulation and sending AN/TPS-59 radar plot data to tactical systems

Creating, Visualizing, and Controlling Scenarios

FAST supports a single "Director" station and any number of "Controller" stations. A Director can create new scenarios manually or by automatically importing ATO and ACO data. Directors can also edit existing scenarios and start, stop, pause, and fast-forward the execution of a scenario. During scenario execution, both Directors and Controllers can visualize the scenario and create and control scenario entities through a powerful and friendly graphical user interface.

FAST includes a license to each of the standard Runtime Suite applications (FORGE™, FIRE™, and FLASH™) and a license to several Runtime Suite optional products (3D, Analysis, Interactive Simulation, DIS, HLA, Multi-threaded Execution, and Checkpoint/Restart). FORGE can be used to edit and expand the low-level scenario parameter database that is supplied with FAST. Scenarios are executed in the background using FIRE during a training exercise. FLASH can be used to visualize a scenario in 2D and 3D both during scenario execution and in after-action-review mode after scenario execution.

Scenario Execution in FAST

Customizing FAST

Ternion can develop custom extensions to FAST to address specific training requirement requirements. The capabilities of FAST can also be extended by a customer using the FLAMES Development Suite.

Contact Ternion Corporation today to learn more about how you can drastically reduce your training costs while dramatically increasing the effectiveness of your training programs.

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