FLAMES® Simulation Framework

FLAMES Makes It Simple to Perform Complex Systems Analysis

FLAMES® is the framework of choice for almost any constructive simulation, including constructive simulations used for complex system design and analysis.

Using the FLAMES Enhanced Analysis capability in your FLAMES-based simulation, you can easily perform Monte-Carlo analysis and parametric trade studies that vary and analyze almost any aspect of your scenario imaginable.

Perform complex systems analysis with FLAMES in three simple steps.

1 *Configure the Scenario*

System Concepts

Design Parameters

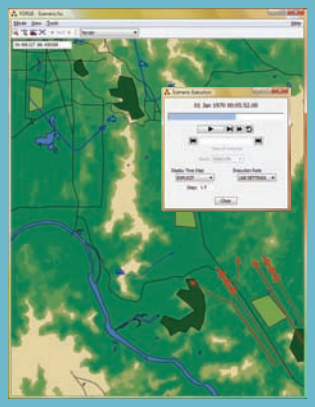
Rules of Engagement

Tactics and Plans

Specify the values of almost any set of input parameters as scenario variables.

Define multiple design cases, which assign different values to your scenario variables.

2 *Execute the Scenario*



Automatically execute your scenario repeatedly for all of your design cases.

3 *Analyze the Results*

Automated Parametric Trade Studies

Monte Carlo Analysis

Proof of Concept

System Demonstrations

Process and analyze the results to get the answers you need.

Use third-party "design of experiment" and analysis tools to automate and enhance the analysis process.

FLAMES Makes Complex Analysis Simple

- Study almost any aspect of any scenario
- Complete complex studies quickly and easily
- Perform studies you never thought possible
- Rely on a proven COTS simulation framework (see back for details)

TERNION® CORPORATION
Simulations That Work℠

FLAMES is a proven COTS simulation framework for complex system design and analysis. Here is a sample of FLAMES-based simulations from around the world that are used for systems analysis.

U.S. Air Force National Air & Space Intelligence Center (NASIC) Integrated Air Defense Systems (IADS) analysis simulation (Helios)

U.S. Air Force Research Laboratory, Munitions Directorate (AFRL/RW) and Vehicles Directorate (AFRL/RB) analysis tools

Northrop Grumman Modeling, Simulation, and Analysis Facility (MSAF)

Raytheon Missile Systems weapons systems analysis simulation

Raytheon Cooperative Engagement Capability (CEC) analysis system and system demonstrator

Johns Hopkins University Applied Physics Lab (APL) net-centric operations analysis simulation

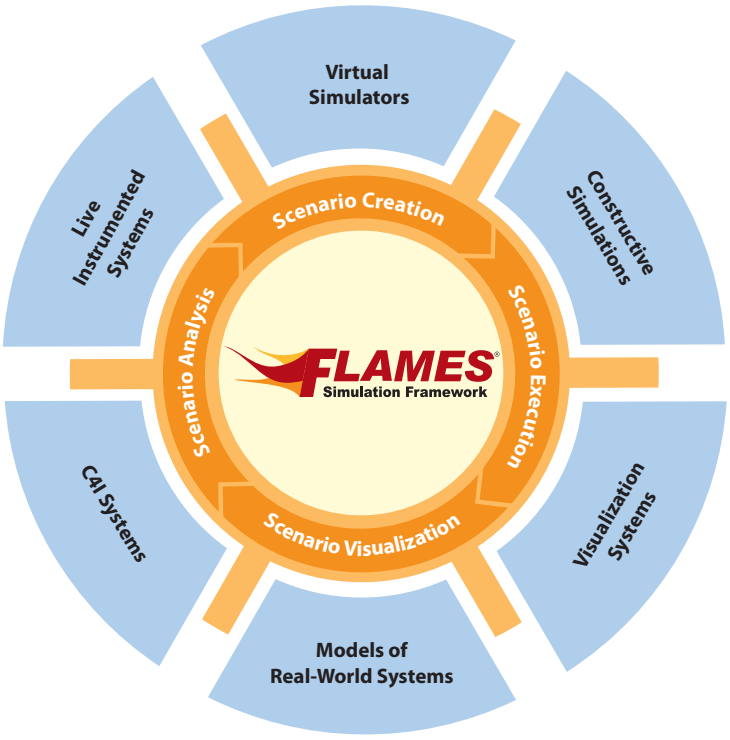
Boeing Advanced Combat Aircraft Division parametric aerospace system design analysis simulation

Indra for Spanish Navy air-to-ship and ship-to-ship systems analysis simulation

Israeli Air Force battlefield systems analysis simulation

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.



FLAMES-Based Simulation System

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