JDesigner™ JADE™ Simulation Design Environment

JDesigner is the graphics engine of the Java Application & Development Environment (JADE) Suite. It provides a user-friendly graphical interface to create realistic graphics of system schematics and virtual panels for JStation. With JDesigner, the user can configure network drawings for all the JADE modeling tools applications, such as JTopmeret, JFlow, JControl, JLogic and JElectric.

JDesigner provides a basic set of building blocks (icon objects) offering the flexibility to include user-created templates and icon objects to fulfill simulation fidelity. Each component in the drawing is interactively linked with its simulated data, so that it can be monitored, controlled and tested in the real time environment.

Key Features

- A point and click mechanism and consistent GUI design among all the JADE components provide an easy-to-use environment
- The GUI components include standard toolbar icons (File, Edit, View, etc.), menu bar drop down list of available options, and icon shortcut menus which are accessed directly from the drawing window
- Provides the basic graphics primitives such as lines, circles, polygons and text to create icon objects and static portions of the drawings
- Ability to add dynamic components to icon objects to provide real time data visualization and animation effect. The dynamic components include changing colors, changing appearance, navigation, and control panel mimics, such as pushbutton, switch, meter and multi-pen recorder.
- Ability to import photographic and graphical images to enhance visible animation
- Ability to display a single drawing in different conditions by using the layer and view manipulation of the developer, instructor and operator
- Ability to change the default dynamic attributes of an icon object in drawing level
- On-line self testing or integrating with the real time environment allows the user to test the dynamic components easily
- Supports analysis of real-time data via a comprehensive Trend Plot
- Since the software is developed in the Java environment, it can be ported across any operating system, such as Microsoft, Linux, and UNIX.
Using JDesigner, full functional soft panel graphics can be developed once for both instructor and operator environments.

JADE provides a common model developer graphical user interface for:

- JTopmeret
- JFlow
- JElectric
- JControl
- JLogic