

# HUMAN-MACHINE INTERFACE \

# VAPS XT

DEVELOP INTERACTIVE, REAL-TIME GRAPHICAL HMIS

## THE EVOLUTION IN HMI DISPLAY DEVELOPMENT

VAPS XT is an easy-to-use yet powerful full-featured software tool for the rapid development of interactive graphical HMI displays for avionics and other embedded applications.

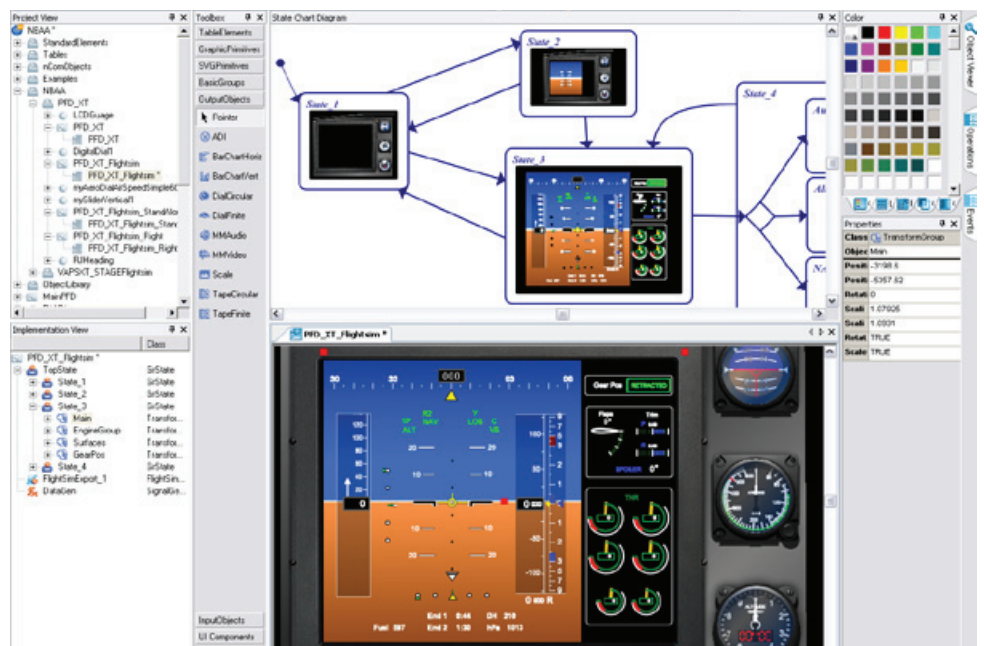
With its open architecture and integrated logic capabilities, VAPS XT provides the ideal mix of features for the design and deployment of advanced cockpit and dashboard displays. Design and create sophisticated graphics for deployment to actual embedded systems through VAPS XT's support for advanced graphical features, including transparencies, gradients, texture-mapping, and smooth shading.

### VAPS XT KEY FEATURES

- Develop your HMI graphics and logic in a structured, model-based environment.
- User-friendly interface perfectly suited for beginner and expert users and design teams.
- Generate standalone executables of your HMI designs and share them with colleagues and customers.
- Deploy your HMI design to virtually any embedded system.
- Create ARINC 661 displays and widgets; VAPS XT includes an extensive library of widgets provided out-of-the-box.
- Customize the styling of your widgets or HMI without modifying the implementation.
- Record scenarios that can be played back to demonstrate your HMI.
- Supports OpenGL, OpenGL ES, OpenGL SC, and custom graphics libraries.

### APPLICATIONS

- ARINC 661 compliant avionics
- RTCA DO-178 compliant/certified systems
- UAS ground station displays
- Graphical overlays for tactical navigation applications
- Military vetronics
- Automotive infotainment, dashboard, and message center displays
- Other embedded HMI displays (i.e., for transportation or industrial applications)



## VAPS XT PRODUCT FAMILY

### VAPS XT DESIGNER

For rapid prototyping, design, and specification of HMIs.

### VAPS XT DEVELOPER

Includes all the capabilities of VAPS XT Designer, plus CODE nGEN™ for automatic code generation of standalone HMI executables.

### VAPS XT FOR EMBEDDED SYSTEMS

Includes all the capabilities of VAPS XT Developer, plus source code libraries, sample code, and utilities that facilitate the retargeting of VAPS XT HMIs to real-time embedded systems.

### VAPS XT-178

Includes VAPS XT Developer license and enables the DO-178 certification of HMIs through the VAPS XT-178 certification kit.

### ARINC 661 MODULE

Design, build, and deploy ARINC 661 compliant systems.

VAPS XT offers HMI designers an unparalleled level of control and flexibility when designing for the complex requirements of next generation avionics and other embedded displays.



## VAPS XT BENEFITS

- Reduce cost, risk, and lead time of the entire embedded HMI development process—from initial design requirements to prototyping, development, testing, and final DO-178 certification.
- Automatically generate code for HMI models in seconds and port to an embedded system with CODE nGEN™.
- Enable rapid feedback cycles and turnaround of changes from design model to deployed system.
- Access hundreds of pre-built objects so that you can begin working immediately.
- Tight integration with other Presagis software tools (e.g., STAGE, FlightSIM, HeliSIM, Vega Prime) and other 3<sup>rd</sup> party industry tools provides unmatched capabilities in a simulated test environment.

## NEW IN VAPS XT 4.0.1

- Develop and deploy applications more quickly with a wide range of design, usability, and performance enhancements.
- Streamline the development of ARINC 661 compliant systems with access to an expanded library of pre-built and coded widgets.
- Reduce cost, time, and risk of DO-178 certification using the VAPS XT-178 product.