

VAPS XT FOR SIMULATION

DISCOVER YOUR HMI POTENTIAL

Ideally suited for prototyping, testing & evaluation, training, and human factors research, VAPS XT allows for the rapid development of:

- Display widgets and objects
- Complete aircraft dashboards
- UAV ground station controls
- Embedded training displays for ground vehicles
- Naval displays

VAPS XT BENEFITS

- Overlaying objects and overlays within a broader simulation.
- Develop displays faster and easier than ever before with integrated logic and code generation capabilities.
- Save time by quickly sharing and reviewing prototypes with key stakeholders.
- Get up and running quickly with over 300 objects included with the tool.
- Easily rehost your simulations and prototypes to real-time embedded platforms using the VAPS XT Rehost option.
- VAPS XT is managed and supported by the largest COTS simulation provider in the world

SOFTWARE FOR DEVELOPING VIRTUAL GRAPHICAL DISPLAYS FOR SIMULATION

VAPS XT is a next generation COTS Human-Machine Interface (HMI) software solution from Presagis.

With its new user-extensible core architecture and integrated logic capabilities, VAPS XT is the industry-leading tool for the development of simulated displays, cockpits, dashboards, and user interfaces. The open and extensible architecture in VAPS XT offers simulation developers an unparalleled level of control and flexibility in the development of simulation panels and overlays. VAPS XT also features fully integrated UML-based logic design that allows both programmers and non-programmers to either visually create complex menu-based applications or assign complex behavior to graphical objects without having to write code or purchase additional software.

VAPS XT dramatically reduces time to market and improves both the visual quality and performance of any HMI application. And, because it integrates seamlessly with other Presagis simulation and visualization COTS software products, users can leverage the power of VAPS XT in combination with the full spectrum of modeling and simulation software. VAPS XT is already being used as a key prototyping and simulation tool by leading systems integrators, including Rockwell Collins, Boeing, and AgustaWestland.



High level Features:

- With photo-realistic effects, unlimited textures, shading, and graphical libraries, VAPS XT is ideal for creating detailed high-quality simulated displays.
- The automatic code generation capabilities included in VAPS XT allows users to automatically generate object code with the click of a button.
- Easily create and share executables of simulated objects and panels with colleagues, customers, and partners.
- Through its unprecedented integration with the STAGE family of simulation tools, VAPS XT provides unmatched capabilities for display concept testing and evaluation in a simulated test environment.

PRODUCT FEATURES

Unmatched Usability

- User-friendly GUI is perfectly suited for both beginner and expert users
- Drag-and-drop object creation.
- C++ object-oriented architecture supports touch-controlled displays, interactive graphics, and menus.
- Create, customize, and save new objects and then re-use across multiple projects.
- Easy logic definition with integrated UML-based Statecharts.
- Standards-based and human readable XML file format.
- Easily add functionality and customize the tool with the user-extensible, model-based core architecture.
- Award-winning online documentation.

High-Quality Object Creation

- Raster file import capability.
- Scalable Vector Graphics (SVG) object creation.
- Transparencies, texture-mapping, and smooth shading support.
- Easily create interactive Windows-like displays using the included GUI object library

Seamless integration with mainstream tools

- Interoperable with STAGE Scenario for computer-generated forces in ground-control stations, operational analysis, and training applications.
- Integrates with STAGE Flightsim/ Helisim for flight simulation, embedded training, test and integration, or early demonstration and validation.

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



- Interoperable with The Mathworks Simulink for system behavioral modeling.
- Features integration with 3D viewer OpenSceneGraph (OSG)

Industry-leading code generation enabled by CODE nGEN™

- One-click executable creation.
- C++ Code-Generation.
- Runs on any PC.
- Full-screen borderless execution.
- Definable window size and position.
- Integration of VAPS XT graphics in an external application.
- Ability to extract individual components from code output.