HUMAN MACHINE INTERFACE \

VAPS XT

RAPIDLY DEVELOP DYNAMIC, INTERACTIVE, REAL-TIME GRAPHICAL HUMAN MACHINE INTERFACES

Offering greater freedom and limitless design possibilities, VAPS XT is ideally suited for data display, simulation applications, and the development of software for embedded systems.

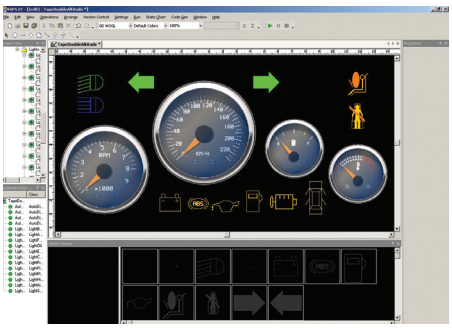
VAPS XT BENEFITS

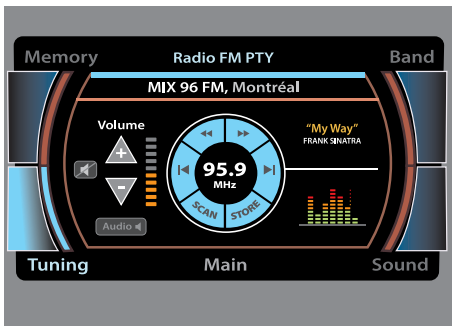
- Featuring integrated UML Statecharts and state-of-the-art graphical capabilities, VAPS XT allows users to design and create such complex menu-based HMIs as automotive displays with the ability to specify control logic concurrently.
- Port prototypes to an embedded target in seconds through the use of CODE nGEN™, the high-performance, robust code generator designed specifically for VAPS XT.
- The new object-oriented architecture provides complete fl exibility for the look and feel of the display artwork and allows the user to create, customize, and save new objects and then to re-use them across multiple projects.
- VAPS XT ships with hundreds of pre-built objects, allowing designers to begin working immediately.

THE EVOLUTION IN AUTOMOTIVE TELEMATICS DEVELOPMENT

With its new user-extensible core architecture and integrated logic capabilities, VAPS XT is the ideal tool for the rapid development of infotainment, multi-function dashboard, and message centre displays for automobiles. VAPS XT also integrates seamlessly into any existing process or environment through its unprecedented integration with other Presagis products and its partnerships with such best-in-class applications as Mathworks Simulink and Rational ClearCase.

Built on years of industry expertise and developed through close consultation with top automotive manufacturers, VAPS XT is the essential solution for HMI development. Presagis collaborated with industry leaders, including DaimlerChrysler and Valeo, to ensure that VAPS XT efficiently and comprehensively addresses the automotive market's requirements for increasingly interactive and menubased displays and information systems. VAPS XT features integrated UML-based statecharts that allow users to visually create complex menu-based applications and to specify underlying display logic without having to write code. And, through its user-extensible and fl exible core architecture, VAPS XT enables developers to create sophisticated displays by offering complete control over every object parameter.





Realize signifi cant time-savings with VAPS XT through a reduced need for coding and testing and by being able to easily collaborate on designs. VAPS XT integrates seamlessly into any HMI design or development process with its powerful new features as well as unprecedented interoperability with all Presagis products and 3rd party partner solutions. VAPS XT unlocks the potential of HMI design.

With its intuitive drag-and-drop graphical user interface, VAPS XT allows both programmers and non-programmers to easily create and customize detailed graphics and objects. HMI developers and human factors experts can use VAPS XT to design and test the look, feel, functionality, and behavior of devices from early specifi cation through to final production display.

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

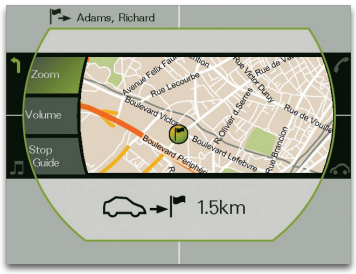


Image Courtesy of Johnson

Product Features

Unmatched Usability

- User-friendly GUI meets the needs of 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.
- Integrated UML-based Statecharts for easy logic definition.
- Standards-based and humanreadable 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.
- GUI object library included to easily create interactive, Windows-like displays.

Seamless integration with mainstream tools

- Integrates with Telelogic DOORS for requirements traceability.
- Interoperability with The Mathworks Simulink for system behavioral modeling.
- Integrates with Rational ClearCase for project lifecycle management.

Industry-leading code generation enabled by CODE nGEN™

- A high-performance, robust code generator designed specifi cally for VAPS XT.
- Automatically generate code to create a fully-functional, interactive desktop executable.
- Automatically generate optimized code for minimal memory footprint for embedded systems, such as Windriver VxWorks, Greenhills Integrity, and 3D enabled PDAs.
- Choose between the generation of native OpenGL code or any other graphics standard to efficiently meet the needs of your embedded system.

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