PRESAGIS

PRESAGIS VAPS XT

PROVEN SOLUTION FOR DEVELOPING GRAPHICAL USER INTERFACES

FROM CONCEPT TO DEPLOYMENT, CREATE INTERACTIVE, REAL-TIME HMIs IN A MODEL BASED DEVELOPMENT ENVIRONMENT

VAPS XT PRODUCT FAMILY

Presagis has provided HMI graphical modelling tools to produce state-of-the-art graphics and highly optimized code for both desktop and embedded systems for over 35 years. VAPS XT answers all the needs of your possible graphical interface development projects; whether it involves desktop simulation and prototyping, embedded graphic solutions, ARINC 661, FACE and certification we have the right solution. VAPS XT, VAPS XT 661, VAPS XT DO-178 cover all your possible development needs.

Presagis' VAPS XT is a powerful full-featured software tool for the rapid development of interactive graphical HMI displays for avionics, embedded applications and safety critical systems. Easy to use by every level of user experience. Capture requirements and design; express functionality in integrated state charts and automatically generate code that implements the design.

VAPS XT allows users to define both object appearance and display logic in one easy graphical editor. Working together and using the automatic code generator supporting DO178C DAL A – developers and human factors experts can define the look and feel of an object or group of objects, assign behavior, and subsequently generate a stand-alone executable. VAPS XT applications can be easily deployed to virtually any embedded target with excellent performance.

VAPS XT

Rapidly prototype, simulate, design, build, and deploy HMI's and graphical displays. Connect to external data and see displays update automatically. With WYSIWYG editor and a flexible code generator supporting deployment to Windows, Linux, Android, iOS and embedded systems ensuring accurate design. Support for touch gestures, video mixing, avionics bus connection, logic tool integration and complex graphics development.

Visit www.presagis.com/VAPS-XT to find out more.

VAPS XT 661

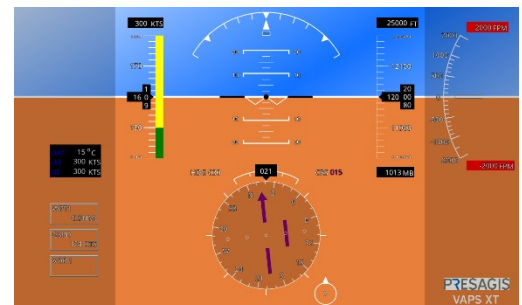Access to the power of all the VAPS XT features adding unique ARINC 661 functionality.
Design, build, and deploy ARINC 661 systems with Easy-to-use graphical editor. Provided with comprehensive widget library and the flexibility to extend and modify Users can build Cockpit Display System (CDS) & widgets, Layers and UALD (User Application Layer Definitions). With widget code generator, a Binary DF generator and configuration resource management VAPS XT 661 tools provide the flexible environment needed to work with the ARINC 661 standard.

Visit www.presagis.com/ARINC661 to find out more.

VAPS XT DO-178

Reduce cost, time, and risk of DO-178 certification using the VAPS XT DO-178 tools. Offers a simple path to certification by providing DO-178 support for rapid development of safe and certifiable graphics. TQL 1 Code generator and Binary Files deployment supporting DO-178C up to and including DAL A.

Visit www.presagis.com/DO-178 to find out more.

PRESAGIS
HMI Development

Features

- Rapid Prototyping and Simulation
  - From Concept to deployment with single model
  - Integration into Simulation development environments
- Multi Touch Gestures deployable to any system
- HMI Animations with user defined velocity curves
- Support for Large area screen management
  - Window and screen management
  - Multi User HMI display development
- Video streaming, live video and blending
  - FACE Compositor Support
- Code Generator Supporting deployment to virtually any 32-bit or 64-bit environment with TQL-1 Tool and no runtime fee
- Performance Monitoring allowing optimization of designs
- Direct support for OpenGL ES and SC specification

- WYSIWG Editor with support to emulate embedded hardware visuals
- PNG, BMP and SVG support
- Scale 9 grid image scaling
- Advanced Font Management tools
  - Deployment of large International Font sets
- Binary File resource configuration support
  - Colors, line styles, patterns, styling rules
  - Requirements traceability integration
  - Version management integration
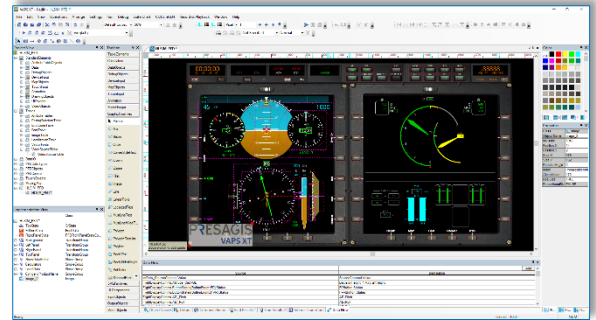
ARINC 661

- Builds on top of VAPS XT with access to all the core features
- Provided with comprehensive ARINC 661 Widget Library
- Supports import of widget libraries from 3rd parties with styling and behavior
- Build new widgets rapidly with components or modify existing library
- Support multiple ARINC 661 supplements (2-8)
- Super Layer Window Management support
- Extended Block Protocol* (Appendix F-6)
- CDS and widget deployment to desktop and embedded systems with TQL-1 code generator with no runtime fee
- Binary DF generation with TQL-1 tool
- Support 100's of UA connections
- ARINC 661 protocol analysis, testing and debugging tools
- Rapid prototyping and simulation
- ARINC 661 Part 2 modelling support

Industry Standards

AS9100,

ARINC 661

ARINC 661 Part 2 Model

FACE Aligned

OpenGL ES, SC1.01 & SC2.0

DO-178C

DO-330

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HMI Development