

VEGA PRIME

RAPIDLY CONFIGURE, CREATE AND DEPLOY ADVANCED 3D SIMULATION APPLICATIONS

FAST, PRECISE 3D APPLICATION DEVELOPMENT

VEGA PRIME BENEFITS

- COTS solution reduces development costs
- API allows for advanced simulation functionality with minimal coding resources
- Easy to use LynX Prime user interface allows for rapid application prototyping, modification and reuse.
- Available for high-performance as well as low cost hardware platforms. This cross platform approach also allows for far easier porting and deployment of applications
- 3rd Party modules that work within the Vega Prime environment, leveraging domain specific expertise. This provides a broader range of regularly upgraded functionality to be available, faster
- Using VSG abstraction API, Vega Prime handles the changes in graphic hardware technologies so you can focus on building your applications
- Ability to create correlated visual and sensor displays

Vega Prime is the most flexible, extensible commercial-off-the-shelf (COTS) tools available for the creation and deployment of visual simulation, multi-domain simulation, and general visualization applications.



Image courtesy of BAE Systems, Warton, UK

With its power, productivity, and flexibility, Vega Prime delivers the tools you need to rapidly develop and deploy accurate, realtime 3D software applications.

The comprehensive solution

By providing a cross-platform, scalable environment, Vega Prime is simply the most productive COTS software available for realtime 3D application development and deployment. Vega Prime is based on VSG (Vega Scene Graph), the advanced cross platform scene graph API, and includes both an advanced abstraction API for ease of use and productivity as well as the LynX Prime GUI configuration tool to accelerate the creation and delivery of your realtime 3D applications for simulation, training and general visualization. A wide range of application-specific modules, designed to work with Vega Prime further enhance the productivity, realism, and functionality Vega Prime brings to your project.

An environment focused on Visual Simulation

Vega Prime provides the runtime simulation component within the only commercially available end-to-end COTS visual simulation software solution, from content development to application deployment. Through features and functionality designed specifically for the requirements of visual simulation, Vega Prime provides developers with a means to rapidly and flexibly develop high performance with minimum effort and maximum productivity and flexibility.

Vega Prime provides the only framework you need to rapidly configure, create and deploy advanced simulation applications. Tightly coupled with the entire line of Presagis products, Vega Prime delivers the tools you need for the optimal end-to-end solution.

Meet real-world productivity demands

Ideal for both high performance and low cost hardware platforms, Vega Prime’s extensible plug-in architecture facilitates the rapid design and prototyping of realtime 3D applications by utilizing the most sophisticated technology available, within an easy-to-use toolkit approach. Vega Prime includes and allows access to all of the functionality available in VSG while providing an enhanced level of functionality, ease-of-use, and productivity. By utilizing Vega Prime you can spend more time on the application-specific functionality that your project requirements dictate. Vega Prime derives its power from a range of highly advanced features, helping you address the precise requirements of today’s most complex applications. Vega Prime integrates features to create an easy-to-use solution that can help ensure you meet your real-world productivity demands. Highly customizable, you can tailor the application to fit your design, rather than having to alter your software to fit within a product’s constraints.

More features speed development time

Vega Prime provides a development environment to increase your ability to rapidly create and deploy advanced realtime 3D applications. Besides the flexibility of VSG and the ease of use of a GUI configuration tool, the functionality delivered with Vega Prime includes environment effects, motion models, coordinate systems, virtual texture, simple audio, overlays, statistics, lighting systems, collision detection, planar shadows, diurnal effects, and path/navigator tools.

Modules for application-specific needs

Presagis offers several powerful application-specific modules that help you solve the challenges of realtime 3D application development. Vega Prime helps you create your own custom development modules. Designed to avoid unnecessary performance overhead, Vega Prime allows you to scale the functionality based on the complexity of the application.

VEGA PRIME BENEFITS

- Deep integration within the Presagis Aeria workflow through Content Creation, HMI and Simulation software from Presagis
- A close relationship with the leading hardware vendors results in support for state of the art hardware functionality
- Modular environment allows the user to mix and match necessary feature sets, or create their own custom functionality
- XML-based data interchange format offers maximum flexibility within other application frameworks
- Scalable architecture prevents unnecessary performance overhead by allowing the user to scale the functionality based on the complexity of the application
- Extendable architecture allows a high degree of customization, allowing users to tailor their application to their own software design, rather than altering their software to fit into a product’s constraints.

