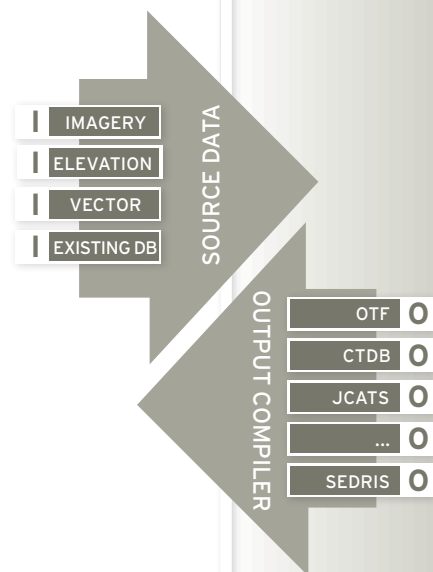


# AERIA



## CONTENT CREATION ENVIRONMENT



3D MODELING  
TERRAIN MODELING  
CONTENT MANAGEMENT  
DATA ENHANCEMENT

## SIMULATION ENVIRONMENT



SIMULATION MANAGEMENT  
ENTITY DEFINITION & CONTROLS  
TERRAIN \ ENVIRONMENT SERVICES  
SCENARIO DEFINITION  
INTEROPERABILITY  
ARTIFICIAL INTELLIGENCE  
HMI DESIGN \ TEST \ DEPLOYMENT

## VISUALIZATION ENVIRONMENT



VISUALIZATION  
SENSORS  
IMAGE GENERATION  
INTEROPERABILITY

## ANALYSIS



AFTER ACTION REVIEW  
ANALYZE RESULTS  
DEBRIEF OPERATIONS  
INTEROPERABILITY

## LEGEND

CR \ CREATOR  
TV \ TERRA VISTA  
ST \ STAGE  
Ai \ AI.implant  
S1 \ SIM ONENET  
XT \ VAPS XT  
VP \ VEGA PRIME  
LY \ LYRA  
SP \ SENSOR PRIME  
A<sup>2</sup>R \ AFTER ACTION REVIEW

### STANDARDS

- Broad support for open industry standards:
  - DIS, HLA, CIGI
  - MSDL, ARINC 424, MIL-STD2525b
  - OpenFlight, TerraPage

### CDB

- Key enabling technology for AERIA
  - Open standard
  - Runtime format
  - Source data repository
- One of many currently supported database formats

### USER PLUGINS

- Based on the Presagis software API
- Add your own specific features
- Customize any Presagis product with your own code

## CREATE

Virtually any GIS data, sensor material, or existing synthetic environment database can be imported into the Aeria workflow.

Using Presagis Creator, you can add highly realistic and accurate 3D OpenFlight models to your simulations, including buildings, building interiors, and vehicles. GIS data and 3D models can then be organized, processed, rendered, and exported using Terra Vista. You can export correlated terrain databases for a wide number of formats including OTF, CTDB, JCATS, OpenFlight or TerraPage. Terra Vista may also be used to produce a Common Database (CDB). Once your CDB is created it can be used at runtime by your simulation or visualization clients.

## SIMULATE

Drawing directly from the CDB in real time, Aeria allows you to seamlessly build simulation scenarios using STAGE Scenario and AI.implant. Easily create and control intelligent entities in any complex simulation and with a high degree of realism. Add photorealistic graphical interfaces to the simulation using VAPS XT. Then interact with the simulation at runtime, to modify, capture, pause, restart, or gather data when the action is occurring and make immediate adjustments in a seamless way.

All Aeria applications are interoperable out-of-the-box either through DIS or HLA. You can also integrate third-party products with a larger variety of networks (even rare proprietary specific protocols) using Presagis SIM OneNet.

## VISUALIZE

Once you've created your synthetic environment, you can visualize it directly using the industry's most widely adopted visualization software, Vega Prime; a solution that delivers an extensible visualization application development environment.

Aeria can also include integration of high-end sensor products and high fidelity marine visualization modules, as well as ready-to-go visualization applications for IGs, such as Lyra.

Leveraging the CDB standard, the synthetic environment can be read directly in runtime by Presagis visualization software within Aeria eliminating time and energy spent on correlation and integration. The ongoing use of industry standards, such as CIGI, HLA, DIS, and others, also means seamless integration of Presagis software with third party applications.

## ANALYSE

Whether to capitalize on simulation experimentation data, to make decisions using an SBA approach, or even execute performance analysis to track the progress of trainees, After Action Review is an important part of the Aeria vision. Saving and analyzing the data provided by simulation and visualization is essential. The recording capability in Presagis SIM OneNet allows users to save information for post analysis. The Aeria workflow has the capability to interoperate with 3rd party or proprietary network protocols to monitor, collect, and re-inject information.

**PRESAGIS**

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